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# मध्यप्रदेश राजपत्र

प्राधिकार से प्रकाशित

क्रमांक 10]

भोपाल, शुक्रवार, दिनांक 8 मार्च 2024—फाल्गुन 18, शक 1945

## भाग ४

विषय—सूची

(क)	(1) मध्यप्रदेश विधेयक,	(2) प्रवर समिति के प्रतिवेदन	(3) संसद में पुरःस्थापित विधेयक.
(ख)	(1) अध्यादेश	(2) मध्यप्रदेश अधिनियम,	(3) संसद के अधिनियम.
(ग)	(1) प्रारूप नियम,	(2) अन्तिम नियम.	

## भाग ४ (क)—कुछ नहीं

## भाग ४ (ख)

## अध्यादेश

उच्च शिक्षा विभाग

मंत्रालय, वल्लभ भवन, भोपाल

भोपाल, दिनांक 6 मार्च 2024

क्र. आर-181-सीसी-18-अड़तीस.— मध्यप्रदेश निजी विश्वविद्यालय (स्थापना एवं संचालन) अधिनियम, 2007 की धारा 29(1) के अनुक्रम में, मालवांचल निजी विश्वविद्यालय, इंदौर के पश्चात्पूर्ती अध्यादेश क्रमांक 63 से 91 तक के साधारण राजपत्र में प्रकाशन राज्य शासन के निर्देशों के अनुसार अधिनियम, 2007 की धारा 35 अनुसार प्रकाशित किया जाता है. संस्था के उक्त अध्यादेश प्रकाशित होने की तारीख से प्रवृत्त होंगे.

पश्चात्पूर्ती अध्यादेश क्रमांक 63 से 91

मध्यप्रदेश के राज्यपाल के नाम से तथा आदेशानुसार,

वीरन सिंह भलावी, अवर सचिव.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)****ORDINANCE No. 63****Implementation of New Education Policy 2020 in B.Des.  
BACHELOR OF DESIGN**

1. **Title of the Degree** : Bachelor of Design (B.Des.)
2. **Name of Faculty** : Faculty of Fine Arts & Design
3. **Course Name** : Bachelor of Design
3. **Duration of the Course** : Four Year (Eight semesters)
4. **Eligibility for Admission** :
5. Candidate who have passed duly recognized following examination:-  
Final examination of the 10+2 system by any recognized Central Board, such as Central Board of Secondary Education, New Delhi; Council for Indian School Certificate Examination, New Delhi or any State Board such as M.P. Board of Secondary Education Bhopal or Others.  
**Or**  
i. H.S.C. Vocational Examination by any recognized Central/State Board  
**Or**  
ii. Senior Secondary School Examination conducted by the National/any State Open schooling with a minimum of five subjects of relevant and required fields.  
**Or**  
iii. Any Public School/ Board /University examination in India or in any foreign country recognized as equivalent to 10+2  
**Or**  
iv. General Certificate Education (GCE) Examination (London/Cambridge/Sri Lanka) at the Advanced(A) Level  
**Or**  
V. Any other examination equivalent to 10+2 by Central/State Government  
**And**  
Candidate should have secured at least 45% (40% for reserved categories) marks in aggregate or equivalent Grade in their qualifying examination. Subject to the condition that requirement of minimum obtained % shall be as per the norms of UGC or other regulatory bodies (if Applicable)

**Note:** Candidate who is appearing or has appeared for any qualifying examination during the current academic session as a regular or a private candidate can also apply for admission on provisional basis, subject to the condition that the candidate must pass the qualifying examination with require percentage of marks or equivalent grade.

6. **Eligibility for Admission to NRI/Foreign and Privileged Candidates:-**  
Non-resident Indian and other privileged candidate shall be eligible for admission to these courses in accordance with the directives of Govt. of India and/or State Government.
7. **Admission Procedure :**  
The eligible candidates as specified in clause 4 above, should secure a place in the merit list prepared on the basis of academic credentials or through The University entrance test/Examination consisting of Aptitude Test/ Group Discussion/ Personal Interview or through Counseling or the University may also use the score card of various competitive entrance test/ examination results of various Institute/Board/University/other Professional Bodies/ Organizations or any other mode as decided by the UGC or other Regulatory Bodies (if Applicable) from time to time.
8. **Intake :**  
The Intake for each of these courses shall be decided by the University from time to time, taking care of the norms of the concerned regulatory body.
9. **Academic cycle/ year :**  
There will be one/ two academic cycle for these courses every year like Summer (July) & Winter (January) as decided by the University.
10. **Entry and Exit System**  
To enable multiple entry and exit points in the academic programme, qualifications such as University degree shall be organized in a series of levels in an ascending order from level 5 to level 8. Level 5 represents certificate and level 8 represents Bachelor Degree (Honors/Research) qualification (Table-I).

Table -1: Qualification Type and Credit Requirements

Levels	Qualification title	Credit required
Level 5	Undergraduate Certificate in the faculty of the Major Subject for those who exit after the first year (two semesters) of the undergraduate programme (Programme duration first year on two semesters of the under graduate programme)	40
Level 6	Undergraduate Diploma in the faculty of the Major Subject for those who exit after two years (four semesters) of the undergraduate programme (Programme duration First two years or four semesters of the undergraduate programme)	80
Level 7	Bachelor Degree in the faculty of the Major Subject (Programme duration Three years of six semesters)	120
Level 8	Bachelor Degree in the faculty of the Major Subject (Honors/Research) (Programme duration Four years of eight semesters)	160

11. **Credit System**

The credits will be awarded by the University. The credit can be calculated as follows.

- One hour of theory or one hour of tutorial or two hours of laboratory work per week for 15 weeks resulting in the award of one credit.
- Credits for internship shall be one credit per week of training. Subject to a maximum of six credits in a semester.

## 1. Course Structure

Types of courses shall be as follows:

**12.1 Core Course:** Such courses which shall compulsorily be studied by the student as core requirements of the programme

**12.2 Elective Course :** Generally, a course which the student can choose from a pool of courses, which is specific or specialized at advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables an exposure of some other discipline/domain to nurture the candidate's proficiency or skill is called an Elective Course.

**12.2.1 Discipline Specific Elective (DSE) Course:**

Elective courses offered from the main discipline/subject of study are referred to as Discipline Specific Elective the University may also offer discipline related Elective courses of interdisciplinary nature (to be offered by main discipline/subject of study)

**12.2.2 Dissertation/Project**

An elective course designed to acquire special/advance knowledge, such as supplement study/support study to a project work, and student studies such a course independently with advisory support by a teacher/faculty member is called dissertation/project. It is considered a special course involving the application of knowledge in solving/analyzing/exploring a real-life situation/difficult problem for a bachelor degree with honors/research A Project/Dissertation work would be of credits, as decided by the competent body. The student will do this work under the guidance of a faculty member.

**12.3 Generic Elective (GE) Course**

An elective course chosen generally from an unrelated discipline/subject to seek exposure of other fields is called a Generic Elective course.

**12.4 Ability Enhancement Courses (AEC):**

The Ability Enhancement Courses (AEC) are of two types

- Ability Enhancement Compulsory Courses (AECC)
  - Skill Enhancement Courses (SEC) or Vocational Courses
- "AECC" courses are the courses based upon the content that leads to knowledge enhancement, such as,
- Environmental Education
  - English/Hindi Communication is mandatory for all disciplines.
- "SEC" courses are value based/skill-based to enhance skills of the Major Subject They are aimed to provide hands on training competencies, skills, etc

*The syllabus for a specific programme will be decided by the concerned Board of studies of the University/Autonomous College based on the curriculum issued by the UGC under LOCF with maximum deviation of 20%.*

**13. Passing Standards**

Level	Semester	Minimum Credit Requirement					
		Disciplinary Elective	Minor subject	Generic Elective	*Ability Enhancement	Vocational	Field/ Internship
Degree	Fifth	6	4	4	4	-	-
	Sixth	6	4	-	4	4	4

**Percentage:** For passing a semester examination and for promotion to the next semester (from 1<sup>st</sup> to 8<sup>th</sup> Semester) a student shall have to obtain a minimum of 50% marks in each paper separately of Theory and Practical Examinations including dissertation / thesis / project work (wherever applicable) The division shall be declared on the basis of total marks scored in all the six semesters as follows.



- First division with honours, where student score 75 % or more marks
- First division, where student score 60% or more marks
- Second division, where student score 50% above but less than 60 % marks

**14. Medium of Instruction & Examination: -**

The Medium of Instruction during the Examination shall be English/ Hindi.

**15. Examination: -**

Examination will be conducted as per Ordinances 5 & 6 of Malwanchal University as per the Regulations made in this respect as described in the Scheme of examination promotion to subsequent semesters and course of studies shall be as per the recommendation of the concerned Board of Studies with due approval of Academic Council. The Examination pattern shall be CBCS with continuous assessment of students. The passing criteria will be 50% including internal exam for both theory and practical separately. The Studies and examination of the course shall be basis on the marks/marks cum credit / credit system as recommended by Board of Studies from time to time.

**16 Attendance Requirement:**

A candidate must have at least 75% attendance in each semester, provided that, in case of illness or because of other reasonable cause, it shall be relaxed by Vice Chancellor as up to 15% admissible within applicable regulation.

**17 General Instructions: -**

- i. For matters not covered in this specific ordinance, general rules and regulations of - Malwanchal University, regarding specific courses shall be applicable. In other matters Board of Management of Malwanchal University shall be competent to take any decision which shall be final.
- ii. Other guidelines as described in NEP 2020 shall be followed.

A

**MALWANCHAL UNIVERSITY, INDORE(M.P.)****ORDINANCE No. 64****Establishment under M.P. Act No. 17 of 2007****BACHELOR OF AYURVEDIC MEDICINE & SURGERY B.A.M.S**

This ordinance shall provide regulation of MALWANCHAL UNIVERSITY running Bachelor degree Program in Bachelor of Ayurvedic Medicine & Surgery - B. A. M. S. The programme shall be governed by the norms, rules and guidelines of the conceded regulatory National commission council of Indian system of Medicine, New Delhi and the policies of Government of Madhya Pradesh.

**Title of the Degree**

: Ayurvedacharya (Bachelor of Ayurvedic Medicine &amp; Surgery - B. A. M. S.)

**Name of Faculty**

: Faculty of Ayurveda

**Department**

: Department of Ayush

**Duration of the Course**

: 4 years and 6 months &amp; 1 year internship

The duration of the programme of instructions for the Degree of Ayurvedacharya (Bachelor of Ayurvedic Medicine & Surgery) shall be of Five Year and six months.

The duration of the course shall be five years and six months comprising:

- First Professional B.A.M.S. - Eighteen months
- Second Professional B.A.M.S. - Eighteen months
- Third (Final) Professional B.A.M.S. - Eighteen months
- Compulsory Rotatory Internship - Twelve months

**Eligibility for Admission:**

The eligibility to seek admission in Bachelor of Ayurveda medicine and surgery education are as under:

- 12<sup>th</sup> standard with science or any other equivalent examination recognized by concerned State Governments and Education Boards with at least fifty per cent aggregate marks in the subjects of Physics, Chemistry and Biology.
- For reserved category or special category like physically handicapped students in 10+2, they shall be given relaxation in marks for admission in Bachelor of Ayurvedic Medicine and Surgery as per rules for time being in force.

The reservation and relaxation for SC/ST / Other categories shall be as per the rules of state Govt., whichever is applicable

**Eligibility for Admission to NRI / Other Privileged Candidates:**

Non-resident Indian and other privileged candidate shall be eligible for admission to these courses in accordance with the directives of Govt. of India and / or State Government.

For foreign students any other equivalent qualification to be approved by the concerned authority may be allowed.

**Admission Procedure:**

Admission shall be made through merit / entrance test conducted by Govt. authorized agency in the State. Fees shall have to be remitted by the student in the beginning of every academic year on duly notified date. Candidates failing to deposit the fee in time shall be liable for penalty, as prescribed by the University. fee structure laid down in the Admission Bulletin of the specific year will remain applicable all through the course duration of the candidates who have taken admission in the concerned academic year.

**Intake**

The intake for the course shall be decided by the University from time to time, taking care of the norms of the concerned Regulatory Body.

**Academic cycle / year**

Academic year for the course of BAMS is of three professional years out of which each professional years is of Eighteen months.

**Medium of Instructions and Examination:**

The medium of instructions and examination shall be English, Hindi, or Sanskrit.

**Examination:**

- (a) (i) The First Professional examination shall ordinarily be held and completed by the end of First professional session;
- (ii) The student who failed in one or two subjects of First Professional shall be allowed to keep terms of the Second Professional session and to appear in Second Professional examination;
- (iii) The student who failed in more than two subjects shall not be allowed to keep term in Second Professional session and the subsequent supplementary examination of First Professional shall be held at every six months.
- (b) (i) The Second Professional examination shall ordinarily be held and completed by the end of Second Professional session;
- (ii) the student who failed in one or two subjects of Second Professional shall be allowed to keep the term of the Third (Final) Professional session;
- (iii) the student who failed in more than two subjects shall not be allowed to keep term in Third (Final) Professional session and the subsequent supplementary examination of Second Professional shall be held every six months.
- (c) (i) The Third (Final) Professional examination shall ordinarily be held and completed by the end of Third (Final) Professional session.
- (ii) Before appearing for Third (Final) Professional examination the

students shall have to pass all the subjects of first and second professional and shall qualify nine electives.

- (iii) The subsequent supplementary examination of Third (Final) professional will be held at every six months.
- (d) There shall be no separate class for odd batch student (those students who could not keep the term) and the student has to attend the class along with regular batch or with junior batch as applicable.
- (e) To become eligible for joining the Compulsory Rotatory Internship programme, all three professional examinations shall be passed and qualified in nine electives within a period of maximum ten years from the date of admission.
- (f) The theory examination shall have twenty per cent. marks for Multiple Choice Questions (MCQ), forty per cent. marks for Short Answer Questions (SAQ) and forty per cent. marks for Long Explanatory Answer Questions (LAQ) and these questions shall cover the entire syllabus of the subject.
- (g) The minimum marks required for passing the examinations shall be fifty per cent. in theory component and fifty per cent in practical component (that include practical, clinical, viva-voce, internal assessment and electives wherever applicable) separately in each subject.
- (h) **Evaluation of Electives.**—Electives shall be evaluated in terms of attendance and assessment and on the basis of evaluation, the students shall be awarded credits as well as grades as under—
  - (i) one credit shall be awarded for attending minimum five hours of a modular programme and a student can earn maximum five credits for each elective;
  - (ii) Assessment shall be conducted at the end of each module and average of five modular assessments shall be considered for grading i.e., up to 25 per cent. Bronze; 26-50 per cent. Silver; 51-75 percent. Gold; 76 percent. and above Platinum.

(iii) The structure of electives shall be as per the following table, namely:—

**Table – 6 (Structure of Elective)**

Each Elective: Five Modules of Nine Hours Each (5*9=45)					
Sl. No.	Component	Duration (Hours)		Credits	Grade s
		Module	Elective		
1	Teaching	5	25	One Credit for attending minimum of five hours of each modular programme. Maximum five credits	Grade is awarded on the basis of average of all five modular assessments. Bronze: <25 per cent. Silver: 26-50 per cent. Gold: 51-75 percent. Platinum: 76 per cent. & above.
2	Guided Learning	2	10		
3	Expert Interaction/ Reflection	1	5		
4	Assessment	1	5		

(iv) (a) Students shall have to qualify (obtaining any grade) minimum of three elective subjects for each professional session.

(b) List of elective subjects shall be made available under three sets (A, B and C) for each professional session i.e., sets FA, FB and FC for first professional B.A.M.S.; sets SA, SB and SC for second professional B.A.M.S.; sets TA, TB and TC for third professional B.A.M.S.

(c) Student may opt any one elective as per their choice from each set specified for respective professional B.A.M.S.

(d) Weight age of two marks for each credit and maximum of ten marks shall be awarded for each elective.

(e) These elective marks shall be added to the viva-voce marks of respective subjects as specified in these regulations.

(f) Apart from three mandatory electives for each profession, students have freedom to choose and qualify as many numbers of additional electives as per their interest.

(g) Marks weight age shall be only for three electives per professional session i.e., one elective subject from each set of respective professional session.

(h) A separate online certificate shall be generated for each elective mentioning credit earned and grades obtained.

(v) The examination branch of the institution shall compile the marks of electives obtained by students as specified above and submit to university through the Head of the Institution so that the university shall add the same in viva-voce of respective subjects as shown in Tables 11, 13 & 15.

- (i) (i) A candidate obtaining sixty-five per cent. and above marks shall be awarded first class in the subject and seventy-five per cent and above marks shall be awarded distinction in the subject.
- (ii) The award of class and distinction shall not be applicable for supplementary examinations.
- (j) (i) Each student shall be required to maintain minimum seventy-five percent attendance in each subject in theory (i.e., lecture hours) practical and clinical (i.e., non-lecture hours) separately for appearing in examination.
- (ii) Where the institute maintains physical attendance register, it shall be recorded in cumulative numbering method as per *Annexure-iv* and at the end of the course/term/part of the course, after obtaining each student signature the same is to be certified by respective Head of the Department and approved by Head of the Institute.
- (iv) The approved attendance shall be forwarded to university.
- (k) If a student fails to appear in regular examination for cognitive reasons, he may appear in supplementary examination as regular student and his non-appearance in regular examinations shall not be treated as an attempt.
- (l) Notwithstanding anything contained in these regulations,-
  - (i) Clause 11(e) shall be applicable to the student who admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, except electives and as per section 3 of SCHEDULE 1 (as amended vide notification no. 24-14/2016 (U.G. Regulation) Regulations, 2016) with 4 professionals.
  - (ii) Student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, the maximum number of chances and maximum period of years to pass respective professional examination as laid down under the clauses 6(1)(c), 2(e), 3(c), 4(d), and 4(e) of SCHEDULE I (as amended vide notification no. 24-14/2016 (U.G. Regulation) Regulations, 2016) shall not be applicable.

#### Assessment:-

Assessment of students shall be in the form of Formative and Summative Assessment as under:-

- (a) **Formative Assessment.**- Students shall be assessed periodically to assess their performance in the class, determine the understanding of programme material and their learning outcome in the following manner, namely:-
  - (i) Periodical Assessment shall be carried out at the end of teaching of a topic or module or a particular portion of syllabus and the evaluation methods as per the following table may be adopted as suits to the content, namely:

Table-7

Sl.No.	EvaluationMethod
1.	Practical/ClinicalPerformance
2.	VivaVoce,MCQs,MEQ(ModifiedEssayQuestions/StructuredQuestions)
3.	OpenBookTest(ProblemBased)
4.	SummaryWriting(ResearchPapers/Samhitas)
5.	ClassPresentations;WorkBookMaintenance
6.	ProblemBased Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE),Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case BasedDiscussion(CBD)
8.	Extra-curricularActivities,(Social Work,PublicAwareness,SurveillanceActivities,SportsorOther Activitieswhichmaybe decidedbythe department).
9.	SmallProject;

(Evaluationmethodsforperiodicalassessment)

- (ii) (a) internal evaluation shall be conducted by the College and Institute at the end of six months (First Term Test) for thirty per cent. of the syllabus and at twelve months (Second Term Test) for forty per cent. new part of the syllabus.
- (b) The remaining thirty per cent. of syllabus shall be completed in the last six months (Third Term) before university examination;
- (iii) there shall be minimum three periodical assessments for each subject before First Term Test (ordinarily at 6<sup>th</sup> month of respective professional B.A.M.S.) minimum of three periodical assessment before Second Term Test (ordinarily at 12<sup>th</sup> month of respective professional B.A.M.S.) and minimum of three periodical assessments before final university examinations (Summative Assessment) of respective professional B.A.M.S.
- (iv) the scheme and calculation of assessment shall be as per the following tables, namely:-

Table-8

[Scheme of Assessment (Formative and Summative)]

Sl.No.	Professional Course	Duration of Professional Course		
		First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)
1	First Professional B.A.M.S.	3 PA and First TT	3 PA and Second TT	3 PA and UE
2	Second Professional B.A.M.S.	3 PA and First TT	3 PA and Second TT	3 PA and UE



3	Third Professional B.A.M.S.	3 PA and First TT	3 PA and Second TT	3 PA and UE
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PA: Periodical Assessment; TT: Term Test; UE: University Examinations

Table-9

(Example for Internal Assessment for the subject having 30 marks)

Term	Periodical Assessment					Term Test	Term Assessment	
	A	B	C	D	E	F	G	H
	1 (15)	2 (15)	3 (15)	Average (A+B+C/3)	Converted to 30(D/45 *30)	Term Test (30)	Sub Total	Term Assessment
FIRST							E+F	E+F/2
SECOND							E+F	E+F/2
THIRD						NIL	E	E
Final A	Average of Three Term Assessment Marks as Shown in 'H' Column							

Maximum Marks in Parentheses

- (c) **Summative Assessment.**-(i) Final university examinations conducted at the end of each professional B.A.M.S. shall be the Summative Assessment.  
(ii) There shall be double evaluation system and shall be no provision for reevaluation.  
(iii) There shall be two examiners (one internal and one external) for university practical/clinical/viva voce examinations.  
(iv) While declaring the results of Summative Assessment, Internal Assessment component and Elective marks shall be considered as per the distribution of marks pattern provided in Tables 11, 13 & 15.

13 The Profession wise Subjects, Number of Papers, Teaching Hours and Marks Distribution shall be as per the following tables, namely:-

Table-10

(Teaching Hours for First Professional B.A.M.S. Subjects)

First Professional B.A.M.S.			
Working days=320, Teaching hours=1920 Induction Programme=15 Working days (90 hours)			
Remaining days/Hours=320-15=305 Days/1830 Hours			
Subject Code	Number of teaching hours		
	Lectures	Non-Lectures	Total



AyUG-SN&AI	100	200	300
AyUG-PV	90	140	230
AyUG-KS	150	250	400
AyUG-RS	180	320	500
AyUG-SAI	140	260	400
<b>Total</b>	<b>660</b>	<b>1170</b>	<b>1830</b>

Table-11

(Number of Papers and Marks Distribution for First Professional B.A.M.S. Subjects)

Sl.No.	Subject Code	Papers	Theory	Practical or Clinical Assessment					Grand Total
				Practical/Clinical	Viva	Electives	I A	Sub Total	
1.	AyUG-SN&AI	2	200	-	75*	10(Set-FA)	15	100	300
2.	AyUG-PV	2	200	100	60	10(Set-FB)	30	200	400
3.	AyUG-KS	2	200	100	70	-	30	200	400
4.	AyUG-RS	2	200	100	70	-	30	200	400
5.	AyUG-SAI	1	100	-	75	10(Set-FC)	15	100	200
<b>Grand Total</b>									<b>1700</b>

\*Viva voce examination shall be for Sanskrit and not for Ayurved Itihasa (Set-FA, FB, FC—set of Electives for First Professional B.A.M.S.)

Table-12

(Teaching Hours for Second Professional B.A.M.S. Subjects)

Sl.No.	Subject Code	Number of teaching hours		
		Lectures	Non-Lectures	Total
1.	AyUG-DG	150	250	400
2.	AyUG-RB	150	300	450
3.	AyUG-RN	150	300	450
4.	AyUG-AT	100	200	300
5.	AyUG-SA2	100	140	240
6.	AyUG-SW	150	250	400
<b>Total</b>		<b>800</b>	<b>1440</b>	<b>2240</b>

Table-13

(Number of Papers and Marks Distribution for Second Professional B.A.M.S. Subjects)

Sl. No.	Subject Code	Papers	Theory	Practical or Clinical Assessment					
				Practical or Clinical	Viva	Elective	I A	Sub Total	Grand Total
1.	AyUG-DG	2	200	100	70	-	30	200	400
2.	AyUG-RB	2	200	100	70	-	30	200	400
3.	AyUG-RN	2	200	100	70	-	30	200	400
4.	AyUG-AT	1	100	100	60	10 (Set-SA)	30	200	300
5.	AyUG-SA2	1	100	-	75	10 (Set-SB)	15	100	200
6.	AyUG-SW	2	200	100	60	10 (Set-SC)	30	200	400
Grand Total									2100

(Set-SA, SB, SC-set of Electives for Second Professional B.A.M.S.)

Table-14

(Teaching Hours for Third Professional B.A.M.S. Subjects)

Third Professional B.A.M.S.				
Working days=320, Teaching hours=2240				
Sl. No.	Subject Code	Number of teaching hours		
		Lectures	Non-Lectures	Total
1	AyUG-KC	150	300	450
2	AyUG-PK	100	200	300
3	AyUG-ST	125	250	375
4	AyUG-SL	100	200	300
5	AyUG-PS	100	175	275
6	AyUG-KB	100	175	275
7	AyUG-SA3	50	100	150
8	AyUG-RM	25	50	75
9	AyUG-EM	--	40	40
Total		750	1490	2240

Table -15

(Number of Papers and Marks Distribution for Third Professional B.A.M.S. Subjects)

Sl.No	Subject Code	Papers	Theory	Practical or Clinical Assessment					Grand Total
				Practical or Clinical	Viva	Electives	I A	Sub Total	
1	AyUG-KC	3	300	100	70	-	30	200	500
2	AyUG-PK	1	100	100	70	-	30	200	300
3	AyUG-ST	2	200	100	70	-	30	200	400
4	AyUG-SL	2	200	100	70	-	30	200	400
5	AyUG-PS	2	200	100	60	10(Set-TA)	30	200	400
6	AyUG-KB	1	100	100	60	10(Set-TB)	30	200	300
7	AyUG-SA3	1	100	-	75	10(Set-TC)	15	100	200
8	AyUG-RM	1	50	-	-	-	-	-	50
Grand Total									2550

(Set-TA, TB, TC—sets of Electives for Third Professional B.A.M.S.)

**14 Migration of student during the study.**-(1) The students may be allowed to take the migration to continue their study to another college after passing the First Professional examination, but failed student's transfer and mid-term migration shall not be allowed.

(2) For migration, the students shall have to obtain the mutual consent of both colleges and universities and it shall be against the vacant seat.

**15 Compulsory Rotatory Internship.**-(a) (i) The duration of Compulsory Rotatory Internship including Internship Orientation Programme shall be one year and ordinarily commence on first working day of April for regular batch students and first working day of October for supplementary batch students.

(ii) The student shall be eligible to join the Compulsory Internship programme after passing all the subjects from First to Third (Final) Professional examination including nine electives and after getting Provisional Degree Certificate from respective universities and Provisional Registration Certificates from respective State Board or Council for Compulsory Rotatory Internship.

(d) Stipend: During internship, to the interns belonging to Central Government, State Government and Union territory institution, the stipend shall be paid at par with other medical systems under respective government and there shall not be any discrepancy between medical systems.

(ii) Migration during Internship.- (i) Migration of internship shall be with the consent of both the colleges and university; in the case where migration is between the colleges of two different universities.

If migration is only between colleges of the same university, the consent of both the colleges shall be required.

(iii) Migration shall be accepted by the university on the production of the character certificate issued by the institute or college and the application forwarded by the college and university with a 'No Objection Certificate' as the case may be.

(e) Orientation Programme.- (i) The interns shall mandatorily attend an orientation programme regarding internship and it shall be the responsibility of the teaching institution to conduct the orientation before the commencement of the internship.

(ii) The orientation shall be conducted with an intention to make the intern to acquire the requisite knowledge about the Rules and Regulations of the Medical Practice and Profession, Medical Ethics, Medico-Legal Aspects, Medical Records, Medical Insurance, Medical Certification, Communication Skills, Conduct and Etiquette, National and State Health Care Programme.

(iii) The orientation workshop shall be organised at the beginning of internship and a e-logbook shall be maintained by each intern, in which the intern shall enter date-wise details of activities undertaken by him during orientation.

(iv) The period of orientation shall be seven days.

(v) The manual for conducting the orientation as prescribed from time to time by the National Commission for Indian System of Medicines shall be followed.

(e) Activities during Internship.- (i) The daily working hours of intern shall be not less than eight hours; the intern shall maintain a e-logbook containing all the activities undertaken by intern during internship.

(ii) Normally one-year internship shall be as under-

(A) Option I.- Divided into clinical training of six months in the Ayurveda hospital attached to the college and six months in Primary Health Centre or Community Health Centre or Rural Hospital or District Hospital or Civil Hospital or any Government Hospital of Modern Medicine or Ayurveda Medicine or NABH (National Accreditation Board for Hospitals) accredited private hospital of Ayurveda. Only OPD based clinics having NABH accreditation shall not be eligible for internship.

(B) Option II.- All twelve months in Ayurveda hospital attached to the college.

(iii) The clinical training of six or twelve months, as case may be, in the Ayurveda hospital attached to the college or in non-teaching hospitals laid down by the National Commission for Indian System of Medicines shall be conducted as per the following table, namely:-

Table-16

(Distribution of Internship duration at Ayurveda Teaching Hospital, attached to the college)

Sl. No.	Departments	Option I	Option II
1	Kayachikitsa OPD including Manas Roga, Rasyanand Vajikarana, Swasthavritta and Yoga, Atyayik Chikitsa, related specialties and respective IPD	1.5 months	3 months
2	Shalya OPD including OT, related specialties and respective IPD	1 month	2 months
3	Shalakya OPD, related specialties including OT, Kriyakalpa and respective IPD	3 weeks	1.5 months
4	Strirogevam Prasuti OPD related specialties including OT and respective IPD	3 weeks	1.5 months
5	Kaumarbhritya OPD related specialties including NICU, pediatric Panchakarma and respective IPD	0.5 month	1 month
6	Panchakarma OPD related specialties, Panchakarma therapy rooms and respective IPD	1 month	2 months
7	Visha Chikitsa OPD and any other specialties, respective IPD, screening OPD, Pathya unit etc. (as per choice of intern)	0.5 month	1 month
8	Primary Health Centre or Community Health Centre or Rural Hospital or District Hospital or Civil Hospital etc.	6 months	-

(iv) (a) The intern shall be posted in any of the following centers where, National Health Programme are being implemented and these postings shall be to get oriented and acquaint the knowledge of implementation of National Health Programme in regard to,-

- (A) Primary Health Centre;
- (B) community Health Centre or Civil Hospital or District Hospital;
- (C) any recognized or approved hospital of Modern Medicine;
- (D) any recognized or approved Ayurvedic Hospital or Dispensary;
- (E) in a clinical unit of Central Council for Research in Ayurvedic Sciences;

(b) all the above institutes mentioned in clauses (A) to (E) shall have to be recognized by the concerned University or Government designated authority for taking such training.

(v) The intern shall undertake the following activities in respective department in the hospital attached to the college, namely:-

(A) Kayachikitsa,-

The intern shall be practically trained to acquaint with and to make him competent

odealwithfollowing, namely:-

- (i) all routine works such as case taking, investigations, diagnosis and management of common diseases by Ayurvedic medicine;
- (ii) routine clinical pathological work such as hemoglobin estimation, complete haemogram, urine analysis, microscopic examination of blood parasites, sputum examination, stool examination, Mutra evam Mala pariksha by Ayurvedic method, interpretation of laboratory data and clinical findings and arriving at a diagnosis and all pathological and radiological investigations useful for monitoring the deterioration of different disease conditions;
- (iii) training in routine ward procedures and supervision of patients in respect of their diet, habits and verification of medicine schedule.

(B) Panchakarma.-The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-

- (i) Panchakarma & Upakarma procedures and techniques regarding Purva Karma, Pradhan Karma and Pashchat Karma;
- (ii) management of procedural complications, counselling of patients for procedures, maintenance of therapy rooms etc.

(C) Shalya Tantra.-

The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-

- (i) clinical examination, Diagnosis and Management of common surgical disorders according to Ayurvedic principles;
- (ii) management of certain surgical emergencies such as fractures and dislocations, acute abdomen;
- (iii) practical training of aseptic and antiseptic techniques, sterilization;
- (iv) intern shall be involved in pre-operative and post-operative managements;
- (v) practical use of local anaesthetic techniques and use of anaesthetic drugs;
- (vi) radiological procedures, clinical interpretation of X-ray, Intra Venous Pyelogram, Barium meal, Sonography and Electro Cardio Gram;
- (vii) surgical procedures and routine ward techniques such as-
  - (a) suturing of fresh injuries;
  - (b) dressing of wounds, burns, ulcers and similar ailments;
  - (c) incision and drainage of abscesses;
  - (d) excision of cysts;
  - (e) venesection;
  - (f) application of Ksharasutra in ano-rectal diseases; and
  - (g) rakthamokshana, Agnikarma, Ksharakarma

**(D) Shalakyatantra.-**

The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-

- (i) diagnosis and management of common surgical disorders according to Ayurvedic principles;
- (ii) intern shall be involved in Pre-operative and Post-operative managements;
- (iii) surgical procedures in Ear, Nose, Throat, Dental problems, Ophthalmic problems;
- (iv) examinations of Eye, Ear, Nose, Throat and Refractive Error with the supportive instruments in Out-Patient Department; and
- (v) all kriyakalpas, Nasya, Raktamokshan, Karnapurana, Shirodhara, Putrak, Kaval, Gandusha in Out-Patient and In patient Department level.

**(E) Prasuti Tantra & Stree Roga.-**

The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-

- (i) antenatal and post-natal problems and their remedies, antenatal and post-natal care;
- (ii) management of normal and abnormal labours; and
- (iii) minor and major obstetric surgical procedures including Yoni Purna, Yoni Pichu, Uttarbasti etc.
- (iv) all routine works such as case taking, investigations, diagnosis and management of common strirogaby Ayurvedic medicine;
- (v) screening of common carcinomatous conditions in women.

**(F) Kaumarbhritya:-** The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-

- (i) Care of newborn along with immunization programme including Svarnaprashana;
- (ii) Important pediatric problems and their Ayurvedic management;
- (iii) panchakarma in children.

**(G) Swasthavritta and Yoga.-** The

intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-

- (i) programme of prevention and control of locally prevalent endemic diseases including nutritional disorders, immunisation, management of infectious diseases, etc.;
- (ii) family welfare planning programme;
- (iii) sahar and Vihar Parikalpana including dinacharya, sadvritta (Lifestyle and diet counseling daily seasonal routines); and

**(H) practice of Ashtang Yoga.**

**Atyayikchkitisa (Emergency or Casualty Management).-** The intern shall be practically trained to acquaint with and to make him competent to deal with all emergency conditions and participate actively in casualty section of the

hospital in identification of casualty and trauma cases and their first aid treatment and also procedure for referring such cases to the identified hospitals.

(vi) The

intern shall complete online programme on public health as laid down by the National Commission for Indian System of Medicine (NCISM), in addition to their regular duties.

(vii) The internship training in Primary Health Centre or Community Center or Rural Hospital or District Hospital or Civil Hospital or any Government Hospital of modern medicine or Ayurvedic Hospital or Dispensary.- During the six months internship training in Primary Health Centre or Rural Hospital or Community Health Centre or District Hospital or any recognised or approved hospital of Modern Medicine or Ayurvedic Hospital or Dispensary, the interns shall-

(A) get acquainted with routine of the Primary Health Centre and maintenance of the records;

(B) get acquainted with the diseases more prevalent in rural and remote areas and their management;

(C) involve in teaching of health care methods for rural population and also various immunization programme;

(D) get acquainted with the routine working of the medical or non-medical staff of Primary Health Centre and be always in contact with the staff in this period;

(E) get familiarized with the work of maintaining the relevant register like daily patient register, family planning register, surgical register, etc. and take active participation in different Government health schemes or programme;

(F) participate actively in different National Health Programme implemented by the State Government.

(viii) Electronic Logbook.- (a) It shall be compulsory for an intern to maintain the record of procedures done/assisted/observed by him on day-to-day basis in a specified e-logbook and the intern shall maintain a record of work, which is to be verified and certified by the Medical Officer or Head of the Unit or Department under whom he works.

(b) Failure to produce e-logbook, complete in all respects duly certified by the concerned authority to the Dean/Principal/Director at the end of Internship Training Programme, may result in cancellation of his performance in any or all disciplines of Internship Training Programme.

(c) The institution shall retain soft copy of the completed and certified e-logbook and it to be made available for verification.

(ix) Evaluation of Internship.- (A) The evaluation system shall assess the skills of a candidate while performing the minimum number of procedures as enlisted with an objective that successful learning of these procedures will enable the candidate to conduct the same in his actual practice.

(B) The evaluation shall be carried out by respective Head of Department at the



end of each posting and the report shall be submitted to Head of the institute.

(C) On completion of one year of compulsory rotatory internship including online course on Public Health, the Head of the Institute evaluate all the assessment reports in the prescribed Form-1 under *Annexure-i*, provided by various Head of the Department at the end of respective posting and if found satisfactory, the intern shall be issued Internship Completion Certificate in Form-2 under *Annexure-II* within seven working days.

(D) If a candidate's performance is declared as unsatisfactory upon obtaining below fifteen marks or less than fifty per cent. of marks, in an assessment in any of the departments he shall be required to repeat the posting in the respective department for a period of thirty per cent. of the total number of days, laid down for that department in Internship Training and posting.

(E) Candidate shall have the right to register his grievance in any aspects of conduct of evaluation and award of marks, separately to the concerned Head of the Department and Head of the Institution, within three days from the date of completion of his evaluation, and on receipt of such grievance, the Head of the Institution in consultation with the Head of the concerned department shall redress and dispose of the grievance in an amicable manner within seven working days.

**NOTE:** However, any changes if notified through Regulation by the NCISM New Delhi, the provision of the above clause shall be modified to the extent.

#### **Eligibility for Award of the Degree of BAMS**

A student shall be declared to be eligible for award of the Degree if he has:

- a. The candidate shall be awarded Ayurvedacharya (Bachelor of Ayurvedic Medicine and Surgery- B.A.M.S.) degree after passing all the examinations and completion of the prescribed course of study extending over the prescribed period and the compulsory rotatory internship extending over twelve months.
- b. Registered and successfully completed all the Core Courses, Optional Courses, Practical/ Lab classes, including Seminars, Workshops, Presentations, Group Discussion, Field Work; Industrial Visit, Industrial Training, Summer Training, Educational Tour, Project Work and other Assignments etc wherever applicable.
- c. Successfully acquired the minimum required credits as specified in the regulation corresponding to the course of his study within the stipulated time, where ever applicable:
- d. Earned the specified credits in all the categories of subjects as applicable;
- e. Secured a minimum 50% marks in every subject theory and practical separately. The award of the Division/ Class shall be as per recommendation of concerned Board of Studies of the University.
- f. No dues to the University, Hostels, Libraries, NCC NSS etc. and
- g. No disciplinary action is pending against him.

**Attendance Requirement:**

A candidate must have at least 75% attendance. Provided that. In case of illness or because of other reasonable cause it shall be relaxed by the Vice-Chancellor as upto 15% admissible within applicable regulations.

**Maximum Duration for Completion of Course:**

The maximum period to complete the course successfully should not exceed 9 years from the date of admission.

**General Instructions:**

- i. The admission to all kinds & mode of BAMS Course shall be governed in accordance and provisions of the Rules / Directives of UGC/NCISM/ AYUSH/ relevant Regulatory Body or any other competent Authority of the Govt. of India / State Government as amended time to time.
- ii. The relaxation in eligibility conditions, age and reservation etc. shall be in accordance with the Rules / Directives of UGC / NCISM/ AYUSH / relevant Regulatory Body or any other competent Authority of the Govt. of India / State Government as amended time to time.
- iii. For matters not covered in this specific ordinance, General Rules and regulations of MALWANCHAL UNIVERSITY, Indore regarding specific courses shall be applicable. In other matters Board of Management of MALWANCHAL UNIVERSITY, Indore shall be competent to take any decision which shall be final.
- iv. At present in the Faculty of Ayurveda, Degree of BAMS shall include the Branches / Discipline as indicated in the ordinance No. 02 under Faculty of Ayurveda courses / programme as well as proposed in future. However, the entire BAMS programme with various Branches / specializations at present & in future shall run under this Ordinance.
- v. The above courses shall run on all possible modes of imparting education including the one governed through this ordinance with the use of latest innovative technologies like on line, e-learning, face-to-face, through webinar etc.
- vi. The programme listed under Ordinance 02 will be introduced with the recommendations of Board of Studies are offered by the Faculty of Medical and Paramedical, Faculty Board of Studies, Academic council and Board of Management of the University.
- vii. In future, more Branches / Specializations / Courses / Programmes of Ayurveda can also be offered, keeping in view of new innovations, thrust areas of Government policies and demand of the industry / society shall run under this ordinance, on the recommendations of the concerned Board of Studies, from time to time, by the University, in its various Faculty; Schools/Centres/ Institutes located in university campus.
- viii. The University shall also offer more number of research programmes with the various specialization titles which shall run under this ordinance on the recommendation of concerned Board of Studies, of University alone and / or in collaboration with or tie-up with other Educational or Academic Institutes / Organizations | Universities / Research Organizations / Industries for the purpose of research / teaching and to provide the dissemination of Knowledge.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)**  
**ORDINANCE NO. 65**  
**Establishment under M.P. Act No. 17 of 2007**  
**POST GRADUATE DEGREE COURSE FOR**  
**AYURVED VACHASPATI [DOCTOR OF MEDICINE (M.D.)–**  
**AYURVED]**  
**OR**  
**AYURVED DHANVANTARI [MASTER OF SURGERY (M.S.) –**  
**AYURVED]**

These general rules are subject to alterations from time to time. The degree shall be conferred after the acceptance of thesis and passing in examination (Written, Viva and Practical / Clinical).

**1. AIMS & OBJECTIVES:**

The aims of the Post-graduate degree courses shall be to provide orientation of specialties and super-specialties of Ayurveda and to produce experts and specialists who can be competent and efficient teachers, physicians, surgeons, obstetricians and gynaecologists (Stri Roga & Prasuti Tantragya), Pharmaceutical experts, researchers and profound scholars in various fields of specialization of Ayurveda.

**2. SPECIALTIES IN WHICH POST-GRADUATE DEGREE CAN BE CONDUCTED:**

The post-graduate degree may be allowed in the following specialties:-

S. No.	Name of Specialty	Nearest terminology of modern subject	Department in which PG degree can be conducted
1	Ayurved Samhita & Siddhnat	Ayurved Samhita & Basic principle of Ayurveda	Samhita & Basic principles of Ayurved
2	Rachna Sharir	Anatomy	Rachna Sharira
3	Kriya Sharir	Physiology	Kriya Sharira
4	Dravyaguna Vigyana	Materia Medica & Pharmacology	Dravyaguna
5	Rasa Shastra & Bhalsajya Kalpana	Ayurveda Pharmaceuticals	Rasa Shastra & Bhaishajya
6	Prasuti & Stri Roga	Obstetrics & Gynecology	Stri Roga & Prasuti
7	Kaumarbhritya – Bala Roga	Pediatrics	Kaumarbhritya-Bala Roga
8	Swasthavritta & Yoga	Preventive Social Medicine and Yoga	Swasthavritta
9	Kayachikitsa	Medicine	Kayachikitsa
10	Rasayan & Vajikaran	Rasayan Vajikaran	Kayachikitsa
11	Manovigyana avum manas Roga	Psychiatric	Kayachikitsa
12	Rog Nidan avum Vikriti Vigyan	Pathology & Diagnostic Procedure	Rog Nidan avum Vikriti Vigyan

13	Chhaya avum Vikiran Vigyan	Imaging and Radio diagnosis	Rog Nidan avum Vikriti Vigyan
14	Shalya-Samanya	General Surgery	Shalya
15	Shalya – Kshar Karma avum Anushastra Karma	Surgery in kshar Karma and Para Surgical measures	Shalya
16	Sangyahanana	Anaesthesiology	Shalya
17	Asthi Sandhi & Marmagat Roga	Orthopedics	Shalya
18	Netra Roga	Ophthalmology	Shalakya
19	Karna, Nasa, Kantha & Shiro Roga	ENT & Head	Shalakya
20	Danta avum Mukha Roga	Dentistry and Oral disease	Shalakya
21	Panchakarma	Panchakarma	Panchakarma
22	Agad Tantra avum Vidhi Vaidyaka	Toxicology & Forensic Medicine	Agad Tantra

3. The nomenclature of post-graduate degree in respective specialties shall be as follows:-

S. No.	Name of Specialty	Nearest terminology of modern subject
1	Ayurveda Vachaspati - Ayurved Samhita & Siddhant	M.D. - Ayurved Samhita & Basic principle of Ayurveda
2	Ayurveda Vachaspati - Rachna Sharir	M.D. - Ayurveda (Anatomy)
3	Ayurveda Vachaspati - Kriya Sharir	M.D. - Ayurveda (Physiology)
4	Ayurveda Vachaspati - Dravya Guna Vigyana	M.D. - Materia Medica & Pharmacology
5	Ayurveda Vachaspati - Rasa Shastra & Bhalsajya Kalpana	M.D. - Ayurveda Pharmaceuticals
6	Ayurveda Vachaspati - Prasuti & Stri Roga	M.S. - Ayurveda Obstetrics & Gynecology
7	Ayurveda Vachaspati - Kaumarbhritya - Bala Roga	M.D. - Ayurveda Pediatrics
8	Ayurveda Vachaspati - Kayachikitsa	M.D. - Ayurveda Medicine
9	Ayurveda Vachaspati - Swastha Vritta & Yoga	M.D. - Ayurveda Preventive Social Medicine and Yoga
10	Ayurveda Vachaspati - Rog Nidan avum Vikriti Vigyan	M.D. - Ayurveda Pathology & Diagnostic Procedure
11	Ayurveda Dhanvantri - Shalya-Samanya	M.S. - Ayurveda General Surgery
12	Ayurveda Dhanvantri - Kshar Karma avum Anushastra Karma	M.S. - Ayurveda Surgery in kshar Karma and Para Surgical measures
13	Ayurveda Dhanvantri - Shalakya - Netra Roga	M.S. - Ayurveda- Ophthalmology
14	Ayurveda Dhanvantri - Shalakya: Shira - Nasa Karna avum Kantha Roga	M.S. - Ayurveda- ENT & Head
15	Ayurveda Dhanvantri - Shalakya Danta avum Mukha Roga	M.S. - Ayurveda- Dentistry and Oral disease
16	Ayurveda Vachaspati - Mano Vigyan	M.D. - Ayurveda (Psychiatry)

	avum Manas Roga	
17	Ayurveda Vachaspati – Panchkarma	M.D. – Ayurveda- Panchakarma
18	Ayurveda Vachaspati - Agad Tantra avum Vidhi Vaidyaka	M.D. – Ayurveda- Toxicology & Forensic Medicine
19	Ayurveda Vachaspati - Sangyahanana	M.D. – Ayurveda Anaesthesiology
20	Ayurveda Vachaspati – Chhaya avum Vikiran Vigyan	M.D. – Ayurveda Imaging and Radio diagnosis
21	Ayurveda Dhanvantri - Asthi Sandhi & Marmagat Roga	M.D. – Ayurveda Orthopedics and Marma
22	Ayurveda Vachaspati – Rasayan & Vajkaran	M.D. – Ayurveda Rasayan Vajikaran

\*The PG degree holder in the old nomenclature will be appointed in concerned department like holder of Kriya Sharir (Dosha Dhatu Malvigyan) in the department of Kriya Sharir and PG holder or Kriya Sharir will be appointed on the basis of teaching experience in Kriya Sharir or Rachna Sharir. Similarly holder of PG of newly developed specialty will be considered for appointment in their basis department mentioned under provision '4' of the Regulations.

#### 4. INTAKE & FEES:

- 4.1 The intake for each of these Programs shall be decided by the Board of Management of the University from time to time subject to the approval of the regulatory body.
- 4.2 Fees of these Programs will be decided by the Board of Management subject to the approval of regulatory body.

#### 5. MEDIUM OF INSTRUCTION:

The medium of instruction and examination shall be Hindi or Sanskrit or English.

#### 6. MIGRATION:

Migration/transfer of students undergoing any postgraduate course shall not be permitted by any University or any authority.

#### 7. ACADEMIC QUALIFICATION & SELECTION CRITERIA FOR ADMISSION:

- 7.1 A person possessing the degree in Ayurved of a University or Board or medical Institution specified in the Second Schedule to the Act Shall be eligible for admission in the Post-Graduate degree course.
- 7.2 The University or any other committee to be constituted by Government concerned shall conduct the admission process.
- 7.3 Reservation for all categories shall be applicable as per State Government/Central Government policy.

**Mode of Selection:** On the basis of the merit in the Entrance examination / qualifying examination and policy decided by the competent authority / statutory body/University, directed by the concerned Council.

#### 8. PERIOD OF STUDY AND ATTENDANCE:

- 8.1 The Student shall have to undergo a study for a period of three years after the admission.
- 8.2 The student shall have to attend at least seventy five percent of total lectures, practicals and clinical tutorials or classes to become eligible for appearing in the

- examination.
- 8.3 The students shall have to attend the hospital and other duties as may be assigned to them during the course of study.
  - 8.4 The students of clinical subject shall have to do Resident duties in their respective department and student of non-clinical subject shall have duties in their respective department like Pharmacy, Herbal Garden, Laboratory during entire period.
  - 8.5 The students shall have to attend special lectures, demonstrations; seminars, study tours and such other activities as may be arranged by teaching departments.

## 9. EXAMINATION AND ASSESSMENTS:

- 9.1 The post-graduate degree course shall have two examinations in the following manner: -
  - 9.1.1 The preliminary examination shall be conducted at the end of one academic year after admission;
  - 9.1.2 The final examination shall be conducted on completion of three academic years after the admission to postgraduate course;
  - 9.1.3 Examination shall ordinarily be held in the month of June or July and November or December every year;
  - 9.1.4 For being declared successful in the examination, student shall have to pass all the subjects separately in preliminary examination;
  - 9.1.5 The student shall be required to obtain aggregate fifty per cent. marks in practical and theory subjects separately to be announced as pass;
  - 9.1.6 If a student fails in preliminary examination, he shall have to pass before appearing in the final examination;
  - 9.1.7 If the student fails in theory or practical in the final examination, he may appear in the subsequent examination without requiring to submit a fresh dissertation;
  - 9.1.8 The subsequent examination for failed candidates will be conducted at every six months interval; and
  - 9.1.9 The post-graduate degree shall be conferred after the dissertation is accepted and the student passes the final examination.
- 9.2 The examination shall be aimed to test the clinical acumen, ability and working knowledge of the student in the practical aspect of the specialty and his fitness to work independently as a specialist.
- 9.3 The clinical examination shall be taken to judge the competence of the student in Ayurved and scientific literature of the specialty.
- 9.4 The viva-voce part of the practical examination shall involve extensive discussion on any aspect of subject or specialty.
- 9.5 **Monitoring learning progress:**  
 It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring should be done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects.  
 The learning out comes to be assessed should include:
  - ( ) Personal Attitudes,
  - (i) Acquisition of Knowledge,
  - (ii) Clinical and operative skills,

- (iii) Teaching skills and
- (iv) Dissertation.

#### 9.6 Personal Attitudes. The essential items are:

- Caring attitudes
- Initiative
- Organizational ability
- Potential to cope with stressful situations and undertake responsibility
- Trust worthiness and reliability
- To understand and communicate intelligibly with patients and others
- To behave in a manner which establishes professional relationships with patients and colleagues
- Ability to work in team
- A critical enquiring approach to the acquisition of knowledge

The methods used mainly consist of observation. It is appreciated that these items require a degree of subjective assessment by the guide, supervisors and peers.

#### 9.7 Acquisition of Knowledge:

The methods used comprise of 'Log Book' which records participation in various teaching / learning activities by the students. The number of activities attended and the number in which presentations are made are to be recorded. The log book should periodically be validated by the supervisors. Some of the activities are listed. The list is not complete. Institutions may include additional activities, if so, desired.

- Journal Review Meeting (Journal Club): The ability to do literature search, in depth study, presentation skills, and use of audio- visual aids are to be assessed. The assessment is made by faculty members and peers attending the meeting using a checklist
- Seminars / Symposia: The topics should be assigned to the student well in advance to facilitate in depth study. The ability to do literature search, in depth study, presentation skills and use of audio- visual aids are to be assessed using a checklist
- Clinico-pathological conferences: This should be a multidisciplinary case study of an interesting case to train the candidate to solve diagnostic and therapeutic problems by using an analytical approach. The presenter(s) are to be assessed using a check list similar to that used for seminar.
- Medical Audit: Periodic morbidity and mortality meeting be held. Attendance and participation in these must be insisted upon. This may not be included in assessment.

9.8 **Teaching skills:** Candidates should be encouraged to teach undergraduate medical students and paramedical students, if any. This performance should be based on assessment by the faculty members of the department and from feedback from the undergraduate students.

#### 9.9 Method of training:

9.9.1 In the first year of the course, the students shall have to acquire knowledge in the applied aspects of the fundamentals of Ayurved.

- 9.9.2 Intensive training shall be provided in classical knowledge along with comparative and critical study in the respective specialty.
- 9.9.3 The emphasis shall be given on intensive applied and hands on training.
- 9.9.4 The students shall have to acquire the knowledge about the methods and techniques of research in the respective fields making use of information technology.
- 9.9.5 In clinical subjects, students shall undertake responsibility in management and treatment of patients independently and deal with emergencies.
- 9.9.6 The student shall undertake training in teaching technology and research methods and shall participate in the teaching and training programs of under-graduate students or interns in the respective subjects during the course of studies.
- 9.9.7 In the clinical training, the student shall have to acquire the knowledge of independent work as a specialist.

#### 10. **DISSERTATION/THESIS:**

- 10.1 Central Scientific Advisory Post Graduate Committee appointed by Central Council of Indian Medicine shall suggest the areas of Research and topics to be focused every academic year to make campaigning of evidence based Ayurved to the need of global standards and achieve publications and the same shall be followed by University Committee while approving the Dissertation title.
- 10.2 The title of the dissertation along with the synopsis, with approval of the Ethics Committee constituted by the institute as per regulations of concerned recognized University or guidelines of Indian Council of Medical Research (ICMR), shall be submitted to the University within a period of six months from the date of admission to post-graduate course.
- 10.3 If a non-clinical subject student takes a thesis topic involving clinical trials then he/she shall work under co-guide of a clinical teacher of the specialty concerned for preparing the thesis.
- 10.4 A copy of the synopsis of the dissertation shall be submitted to the Constituent College/University as per Guideline.
- 10.5 The synopsis of the proposed scheme of work shall indicate the expertise and action plan of work of the student relating to the proposed theme of work, the name of the department and the name and designation of the guide or supervisor and co-guide (if any).
- 10.6 The University shall approve the synopsis not later than three months after submission of the synopsis.
  - 10.6.1 A Board of Research Studies shall be constituted by the University for approving the title.
  - 10.6.2 The University shall display the approved synopsis of dissertation on their website.
  - 10.6.3 The subject of every dissertation shall be research oriented; practical oriented, innovative and helpful in the development of Ayurved system and the subject of the dissertation shall have relation with the subject matter of the specialty.
  - 10.6.4 Once the title for dissertation is approved by the Board of Research Studies of the University, the student shall not be allowed to change the title of the proposed theme of work without permission of the University.
  - 10.6.5 No student shall be allowed to submit the dissertation before six



- months of completion of course and the student shall continue his regular study in the institution after submission of dissertation to complete three years.
- 10.6.6 The dissertation shall contain the methods and data of the research carried out by the student on the problem selected by him and completed under the guidance of the guide or supervisor approved by the University.
- 10.6.7 The dissertation shall consist critical review of literature, methodology, results of the research, discussion on the basis of research findings of the study, summary, conclusion and references cited in the dissertation shall be suitable for publication.
- 10.6.8 The dissertation shall consist of not less than forty thousand words.
- 10.6.9 The dissertation shall contain, at the end, a summary of not more than one thousand and five hundred words and the conclusion not exceeding one thousand words.
- 10.6.10 The guide or supervisor shall be a person of status of a Professor or Reader or Lecturer having post-graduate degree or Visiting Professor or a contractual faculty in the post-graduate departments.
- 10.6.11 A non-post-graduate teacher, for providing guidance to the post-graduate scholars, shall have minimum five years teaching experience in the concerned or allied subject.
- 10.6.12 Five copies of the bound dissertation along with a certificate from the supervisor or guide shall reach the office of the Registrar of the University four months before the final examination.
- 10.6.13 The dissertation shall be assessed by two external and two internal examiners appointed by the University.
- 10.6.14 The dissertation shall be accepted only after the approval of examiners appointed and in case of disapproval by one external examiner, the dissertation shall be referred to third external examiner approved by the University concerned.
- 10.6.15 If the dissertation is not accepted by two external examiners, the same shall be returned to the student with the remarks of the examiners and the student shall resubmit the dissertation after making necessary improvement in the light of examiners' report to the University within a further period of six months.
- 10.6.16 The student shall be permitted to appear in the final examination of post-graduate degree course only after approval of the dissertation by the examiners.
- 10.6.17 Inter-disciplinary research may be done by co-opting the guide or supervisor from the concerned speciality.

## 11. **SCHEME OF EXAMINATION AND PASSING HEADS:**

- 11.1 University shall conduct examination at the end of three academic years for M.D, M.S. in Ayurved Courses. University shall conduct not more than two examinations in a year, with an interval of not less than four and not more than six months between the two examinations.
- 11.2 M.D/M.S. in Ayurved examination in any subject shall consist of thesis, theory papers and clinical/practical and oral examination.
- 11.3 **Passing head and standard of Passing: -**  
There will be two heads of passing: -

- 11.3.1 Four papers of theory shall form one head of passing.
- 11.3.2 Clinical, oral, and practical taken together shall form the second head of Passing.
- 11.3.3 A candidate must pass in both the heads that is the whole examination at one and in the same attempt. A candidate passing in one head and failing to pass in the other head will be declared fail and shall not be entitled to any exemption in the subsequent attempt.
- 11.4 **To pass a candidate must obtain:**
  - 11.4.1 Fifty percent of the total marks in theory examination (Total of all the four papers must be 50% of the total marks of theory).
  - 11.4.2 Fifty percent of the total marks in clinical, oral and practical taken together.
- 11.5 **Declaration of distinction:** A successful candidate passing the University examination in first attempt will be declared to have passed the examination with distinction, if the grand total aggregate marks is 75 percent and above. Distinction will not be awarded for candidates passing the examination in more than one attempt.

## 12. **SUBJECTS OF EXAMINATION:**

- 12.1 The preliminary examination at the end of one academic year after admission shall be conducted in the following subjects, namely: -

### **Paper I**

Part A - Research Methodology;

Part B - Bio or Medical Statistics;

### **Paper II**

Part A - Applied aspects of fundamentals regarding concerned subjects;

Part B - Concerned subject.

- 12.2 The student shall have to undergo training in the department concerned and shall maintain month-wise record of the work done during the last two years of study in the specialty opted by him as under: -
  - 12.2.1 Study of literature related to specialty;
  - 12.2.2 Regular clinical training in the hospital for student of clinical subject;
  - 12.2.3 Practical training of research work carried out in the department, for student of non-clinical subject;
  - 12.2.4 Participation in various seminars, symposia and discussions; and
  - 12.2.5 Progress of the work done on the topic of dissertation.
- 12.3 The assessment of the work done by the students of first year post-graduate course during the first year shall be done before the preliminary examination.
- 12.4 The final examination shall include dissertation, written papers and clinical or practical and oral examination.
- 12.5 There shall be four theory papers in each specialty and one practical or clinical and viva-voce examination in the concerned specialty or group of sub-specialties selected by the student for special study.
- 12.6 The student shall publish or get accepted minimum one research paper on his research work in one journal and one paper presentation in regional level seminar.

**Note:** Syllabus, Scheme & Evaluation of the examination shall be decided by the Academic council of the University from time to time as per guidelines from statutory body/ Council.

**13. MODE OF EXAMINATION AND APPOINTMENT OF EXAMINER(S):**

- 13.1 The preliminary examination and final examination shall be held in written, practical, clinical and oral examination.
- 13.2 The preliminary examination shall be conducted by a team of two examiners, out of which one examiner shall be external from any other institution and final examination shall be conducted by a team of four examiners, out of which two examiners shall be external from any other institution.
- 13.3 A teacher with five years teaching or research experience in concerned subject or specialty shall be considered eligible for being appointed as an examiner.

**14. SCHEME OF EVALUATION:**

The Scheme of evaluation external and internal assessment shall be as per decision of Board of Management on the recommendation of Board of Studies.

**15. CONDONATION OF DEFICIENCY:**

The grace marks shall be allowed according to the general ordinance relating to "Award of Grace Marks" examinations.

**16. CANCELLATION OF ADMISSION:**

Admission of a student may be cancelled under following circumstances.

- 16.1 At any stage, if student is not found qualified, for the Program, as per government norms/ guidelines or the eligibility criteria prescribed by the University.
- 16.2 Failing to complete the program within six years of commencement of the program.
- 16.3 Involvement in gross indiscipline in the Institute / University.
- 16.4 He/ She is found to have produced false/ forged documents or found to have used unfair means to secure admission.

**17. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 66**  
**Establishment under M.P. Act No. 17 of 2007**  
**BACHELOR OF UNANI MEDICINE AND SURGERY- B.U.M.S.**

This ordinance shall provide regulation of MALWANCHAL UNIVERSITY running Bachelor degree Program in Unani Medicine and Surgery- B.U.M.S. The programme shall be governed by the norms, rules and guidelines of the concerned regulatory council and the policies of MP state Government.

**STRUCTURE OF B.U.M.S. PROGRAM:**

The duration of the programme of instruction for the degree of Unani Medicine And Surgery shall be 5 and 1/2 year, comprising:-

First Professional session	(12 month)
Second Professional session	(12 month)
Third Professional session	(12 month)
Final Professional session	(18 month)
Compulsory Rotatory Internship	(12 month)

**1. AIMS AND OBJECTIVES:**

**1.1 AIMS:**

- 1.1.1 To promote sustainable development of higher education consistent with statutory and regulatory requirements.
- 1.1.2 To plan and continuously provide necessary infrastructure, learning resources required for quality education and innovations.
- 1.1.3 To stimulate to extend the frontiers of knowledge, through faculty development and continuing education programs.
- 1.1.4 To make research a significant activity involving staff, students and society.
- 1.1.5 To promote industry/organization, interaction/collaborations with regional / national / international bodies.
- 1.1.6 To establish healthy systems for communication among all stakeholders for vision oriented growth.
- 1.1.7 To fulfil the national obligation through rural health missions.
- 1.1.8 Proficiency in the diagnosis and skills of basic Unani Medicine & Surgery procedures and techniques with adequate theoretical basis and rationale of medical & allied health sciences.

**1.2 OBJECTIVES:**

The objective of the course shall allow the students:

- 1.2.1 To produce competent graduates having a deep basis of Unani with modern scientific knowledge in accordance with Unani fundamental with extensive practical training so as to become Unani Physician and Surgeon and Research worker fully competent to serve in the medical and health services of the country.
- 1.2.2 To implement effectively the programs through creativity and innovation in teaching, learning and evaluation.
- 1.2.3 To make existing programs more career oriented through effective system of review and redesign of curriculum.
- 1.2.4 To impart spirit of enquiry and scientific temperament among students through research oriented activities.

- 1.2.5 To enhance reading and learning capabilities among faculty and students and inculcate sense of lifelong learning.
- 1.2.6 To promulgate process for effective, continuous, objective oriented student performance evaluation.
- 1.2.7 To ordinate periodic performance evaluation of the faculty.
- 1.2.8 To incorporate themes to build values, civic responsibilities & sense of national integrity.
- 1.2.9 To ensure that the academic, career & personal counselling are in-built into the system of curriculum delivery.
- 1.2.10 To strengthen, develop and implement staff and student welfare programs.
- 1.2.11 To adopt and implement principles of participation, transparency and accountability in governance of academic and administrative activities.
- 1.2.12 To constantly display sensitivity and respond to changing educational, social, and community demands.
- 1.2.13 To promote public- private partnership
- 1.2.14 To acquire adequate theoretical & practical knowledge in the basic medical subjects.
- 1.2.15 To enable the student to acquire skills in the evaluation & diagnosis of the physical problems presented by the patients.
- 1.2.16 To build up a learning process that shall include living experience, problem oriented approach, case studies & community health care activities.

## 2. ACADEMIC QUALIFICATION & SELECTION CRITERIA FOR ADMISSION:

- 2.1 Admission to the First year in Bachelor of Unani Medicine & Surgery degree course (B.U.M.S.) shall be 10+2 system of education in science group or equivalent examination with Chemistry, Physics & Biology, as main subjects conducted by a recognized Board/Council/ University with minimum of 50% marks. Urdu is compulsory up to 10th class or equivalent Education. However for SC/ST/OBC candidate the percentage will be relaxed to as per direction of statutory body/ Council.
- 2.2 Admission shall be made through the State and All India counselling of NEET qualified candidates or in the absence of entrance examination purely on merit on the basis of marks obtained in qualifying examination.
- 2.3 The minimum age for admission shall be 17 years on 31st December of academic year of admission.
- 2.4 On admission, every candidate shall have to get fitness certificate from MU Hospital.
- 2.5 The course shall be commencing from the as per apex council/university schedule of every academic year.

## 3. MEDIUM OF INSTRUCTION:

Medium of Instruction shall be Urdu substantiated with English & Arabic where ever necessary. The terminology for modern subjects shall be standard modern terminology with Arabic equivalent. For Unani subjects the terminology shall essentially remain standard Arabic terminology.

### 3.1 Attendance

Candidates appearing as regular student for any annual examination are required to attend 75% of the total lectures delivered and practical classes held separately

in each subject of the course of the study or as per University Policy.  
The total lecture and practical shall be conducted as per scheme.

**3.2 Course Outline:**

The course outline is based on the teaching of Unani medicine with Theory/ Practical/ Clinical observations.

**3.3 Sessional Examinations**

Three Sessional Examination shall be conducted for each subject, separately for theory and practical.

**4. REQUIREMENTS FOR EXAMINATION AND ATTENDANCE:**

Examination will be conducted by the university:

- 1st Year at the end of the 1st year.
- 2nd Year at the end of the 2nd year.
- 3rd Year at the end of the 3rd year.
- B.U.M.S. Final Examination at the end of the Final year.
- Examination shall be in Theory, Practical and Clinical. A candidate will be permitted to appear for the University Examination in the subject only if:
  - He has not less than 75% of attendance in Theory and Practical/Clinical in each subject or Attendance Policy of University.
  - He obtains a Progress Certificate from Head of the institution of having satisfactory completed the course of study prescribed in the subject as required by the regulations and his conduct has been satisfactory.

**5. SCHEME OF EXAMINATION:**

The examinations are to be conducted to assess whether the candidate has acquired the necessary minimum skill and clear concepts of the fundamentals essential for day to day professional work.

5.1 The Examination will be held ones a year for all the four years respectively.

5.2 The students desirous for appearing for the University Examination shall submit the application form duly filled in along with prescribed examination fees. Incomplete application form submitted without prescribed fee or application form submitted after due date will be rejected; and student shall not be allowed to appear for the examination.

5.3 A student who satisfies the clause 3 and following requirements duly certified by the Principal of the B.U.M.S. College/Institution recognized by this University for B.U.M.S. course shall be eligible to appear in the first/ second/Third/Final year B.U.M.S. examination:

5.3.1 of having good character;

5.3.2 of having attended the prescribed course;

5.3.3 of having attended not less than:

- 75% of all course of lectures delivered; and
- 75% of full course of practicals/ Clinical held separately.
- Or as per University Policy.

**5.4 Internal assessment:**

5.4.1 It shall be based on day to day assessment (see note), evaluation of student assignment, preparation for seminar, clinical case presentation etc.

5.4.2 Regular periodical examinations shall be conducted throughout the course. The question of number of examinations is decided by to the institution/University.

5.4.3 Day to day records should be given importance during internal assessment.

5.4.4 Weightage for the internal assessment shall be 20% of the total marks in each subject.

Note: Internal assessment shall relate to different ways in which student's participation in learning process during semesters is evaluated, some examples are as follows.

- Preparation of subject for students' seminar.
- Preparation of a clinical case for discussion.
- Clinical case study/problem solving exercise.
- Participation in project for health care in the community (Planning stage to evaluation).
- Proficiency in carrying out a practical or a skill in small research project.
- Multiple choice questions/Very Short Questions (MCQ/VSQs) test after completion of a system/teaching.

Each item tested shall be objectively assessed and recorded. Some of the items can be assigned as Home work/Vacation work.

#### 5.5 Criteria for Passing:

5.5.1 In all the University examinations, the candidate shall have to obtain 50% marks separately in Theory plus viva voce plus internal Assessment and Practical plus Internal Assessment examination separately.

5.5.2 The candidate must secure minimum 50% marks in each head of passing. There shall be three head of passing i.e. Theory, Practical & Internal Assessment. However candidate securing 35% marks in internal Assessment will have to compensate 15% marks in University examination – Theory/Practical to pass the Subject.

5.5.3 The grace marks shall be allowed according to the general ordinance relating to "Award of Grace Marks"

5.6 Each Theory paper will be of three hours.

5.7 Not more than 40 candidates should be examined in one day in Clinical or Practical examination / subject.

5.8 If candidate fails either in Theory or in Practical/ Clinical Examination of a subject he/she will have to appear for both theory and practical/clinical examination again.

5.9 Internal Assessment marks list shall be submitted to the University office at least two weeks before the commencement of theory examinations.

5.10 The candidate is required to obtain Pass Marks in each of the Theory and Practical. Candidate has to pass all subjects separately in main exam / internal exam. The internal assessment award of any candidate who fails in one or more papers of any semester examination shall be carried forward to the next examination. He/she will, however, have the option to improve his/her marks of sessional examinations at the time of appearing in the Betterment test.

5.11 A candidate who has completed the prescribed course and is unable to appear in the examination or having appeared has failed, may be admitted to subsequent examinations, on payment of the prescribed fee on each occasion and on presenting a certificate signed by the Dean/Principal of college/ Institution in which he/she completed the course, that he/she subsequent to his/her last failure attended a course of training/hospital practice, in the subjects of the examination as the Principal may determine.

- 5.12 The examination shall be held according to the scheme of examination and syllabus prescribed by the Academic Council. A candidate who fails in an examination or having been eligible fails to appear in an examination shall take the examination according to syllabus prescribed by the University for regular students provided that the syllabus for the candidates of supplementary examination shall be the same as was in force in the last main examination.
- 5.13 Syllabus & Scheme of the examination shall be decided by the Academic council of the University from time to time as per guidelines from statutory body/ Council.

**6. FEE:**

The examination fee to be paid by a candidate shall be as per University norms for each examination, or a part thereof.

**7. EVALUATION:**

The minimum marks required to pass in each subject shall be 50% (written & practical separately).

- 7.1 The final results shall be declared after taking into account the marks obtained by the candidate in all the examination & candidates who obtain more than 75% marks have passed in the first attempt all the examinations within the normal period of instructions shall be declared to have passed with distinction.
- 7.2 Every successful candidate shall be granted a Certificate-cum Detail marks card of each examination. Marks obtained in each subject shall be supplied to unsuccessful candidates also. Provided that a candidate who qualifies all the five and half Year examinations of Bachelor Of Unani Medicine And Surgery will be issued a Degree of Unani Medicine And Surgery (Bachelor of Unani Medicine & Surgery) B.U.M.S after completion of internship.
- 7.2.1 The candidates before presenting themselves for this examination shall obtain a certificate of completing the prescribed subject of the first year examination.
- 7.2.2 A candidate failed in one or more subjects in examination shall be eligible to appear in supplementary examination.
- 7.2.3 Candidates who fail to pass the 1<sup>st</sup> year examination in three consecutive opportunities shall not be allowed to continue their studies. However, in case of personal illness of a serious nature of a candidate & in unavoidable condition/circumstances, the V.C may permit one more opportunity for passing the 1<sup>st</sup> professional course.
- 7.3 A person who has passed 2nd prof. B.U.M.S examination shall be eligible to join the Next year B.U.M.S course. However, a candidate who fails in the 2nd Year examination may be allowed to attend the next higher class i.e. the third prof. B.U.M.S course, but will not be allowed to appear in the examination of the next higher year B.U.M.S. till he passes in all the subjects of 2nd year B.U.M.S. examination.
- 7.4 A candidate who fails in the Annual Examination but has obtained at least 50% marks in any (written & practical) separately at the examination shall be exempted from reappearing in the subject (s).
- 7.5 All the students shall appear at the Sessional examination. At least two Sessional examinations shall be conducted in each subject in each academic year. Normally there should be no arrangements for holding supplementary examination after the



Sessional examinations are over, except in cases where the genuineness of absentee is justified.

- 7.6 Every candidate on passing the Bachelor of Unani Medicine & Surgery course of studies shall be required to, undergo compulsory internship training for a period of one year.

NOTE: Internship will start after the declaration of final year B.U.M.S. examination result and Registration of State Medicine Council.

#### 8. **DIVISION AND MERIT LIST:**

- 8.1 The Division shall be awarded after Annual University Examination in each academic year and shall be based on the aggregate marks obtained by the candidates at his/ her successful attempt in annual University Examination.

There shall be Divisions as follows:

Distinction: 75% and above of grand total marks in First attempt.

First Division: >60% and <75% of grand total marks in First attempt.

Second Division: >50% and <60% of grand total marks in First attempt.

Distinction in individual subject: >75% marks in individual subject shall be indicated exclusively in the mark sheet provided in First attempt.

- 8.2 The merit shall be declared by the University after the final year University examination, on the basis of the aggregate marks of all academic years in University examination, the merit list shall include the first 5 candidates securing at least First Division and passing all the appeared subjects in annual examination in first attempt.

#### 9. **RE-EVALUATION/ RE-TOTALING:**

- 9.1 Student may apply for Re-evaluation and/or Re-totalling of the answer sheet of the appeared subject; post result for any doubt in the marks obtained.

- 9.2 Student may go for all the appeared subjects of that session for Re-evaluation as well as Re-totalling simultaneously, within stipulated time, as prescribed by the University.

#### 10. **GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE NO. 67**

**Establishment under M.P. Act No. 17 of 2007**  
**POST GRADUATE DEGREE COURSE FOR**  
**MAHIRE TIB [DOCTOR OF MEDICINE(MD) MAHIRE JARAHAT**  
**– UNANI MEDICINE]**  
**OR**  
**MAHIRE JARAHAT [MASTER OF SURGERY(MS) – UNANI**  
**MEDICINE]**

**1. AIMS AND OBJECTS:**

The aims and objects of the post-graduate degree courses in Unani medicine shall be to provide orientation of specialties and super specialties in Unani medicine and to produce experts and specialists, who can be competent and efficient teachers, physicians, surgeons, pharmaceutical experts and researchers in their respective fields.

**2. NOMENCLATURE OF POST-GRADUATE DEGREE:**

The nomenclature of post-graduate degree in respective specialties shall be as under: -

**SUBJECTS OF AWARDS****Mahire Tib (Doctor of Medicine – M.D.)**

Sl.No.	Nomenclature of speciality or degree	Abbreviation
(1)	(2)	(3)
1.	Mahire Tib –Kulliyate Tib	M.D. (Unani) - Basic principles of Unani medicine
2.	Mahire Tib –Munafeul Aza	M.D. (Unani) - Physiology
3.	Mahire Tib –Ilmul Advia	M.D. (Unani) - Pharmacology
4.	Mahire Tib –Ilmul Saidla	M.D. (Unani) - Pharmacy
5.	Mahire Tib –Tahaffuzi waSamaji Tib	M.D. (Unani) - Preventive and Community medicine
6.	Mahire Tib –Amraze Atfal	M.D. (Unani) - Paediatrics
7.	Mahire Tib -Moalajat	M.D. (Unani) - Medicine
8.	Mahire Tib –Mahiyatul Amraz	M.D. (Unani) - Pathology
9.	Mahire Tib -Ilaj bit Tadabeer	M.D. (Unani) - Regimenal therapy

10.	Mahire Tib – Amraze Jild	M.D. (Unani) - Dermatology
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### Zahire Jarahat (Master of Surgery – M.S.)

Sl.No.	Name of speciality	Abbreviation
(1)	(2)	(3)
11.	Mahire Jarahat-Tashreehul Badan	M.S. (Unani) - Anatomy
12.	Mahire Jarahat-Ilmul Jarahat	M.S. (Unani) - Surgery
13.	Mahire Jarahat-Amraze Uzn, Anf wa Halaq	M.S. (Unani) - Diseases of Ear, Nose and Throat
14.	Mahire Jarahat- Qabalat wa Amraze Niswan Tibb	M.D. (Unani) - Obstetrics and Gynaecology

### 3. STATEMENT OF THE COMPETENCIES:

Keeping in view the general objectives of postgraduate training, each discipline has developed specific competencies which has been defined and spelt out in clear terms. Each department has produced a statement to bring it to the notice of the trainees in the beginning of the program so that he or she can direct the efforts towards the attainment of these competencies.

### 4. COMPONENTS OF THE POSTGRADUATE CURRICULUM:

The major components of the Postgraduate curriculum shall be:

- 4.1 Theoretical knowledge
- 4.2 Practical and clinical skills.
- 4.3 Writing Thesis / Research articles.
- 4.4 Attitudes including communication skills.
- 4.5 Training in research methodology, Medical Ethics and Medico legal aspects.

### 5. ACADEMIC QUALIFICATION & SELECTION CRITERIA FOR ADMISSION:

- 5.1 A person holding the degree of Kamile Tib-o-Jarahat (Bachelor of Unani Medicine and Surgery) or equivalent degree from a recognised University or

institution included in the Second Schedule to the Indian Medicine Central Council Act, 1970 and enrolled in Central or State register of Indian System of Medicine shall be eligible for admission in the postgraduate courses.

- 5.2 There shall be a uniform entrance examination to all medical institutions at the post graduate level namely, the All India AYUSH Post Graduate Entrance Test (AIA-PGET) in each academic year and shall be conducted by an authority designated by the Central Government:

Provided that the said All India AYUSH Post Graduate Entrance Test (AIA-PGET) shall not be applicable for foreign national's candidate.

**Mode of Selection:** On the basis of the merit in qualifying examination and policy decided by the competent authority / statutory body.

## 6. INTAKE & FEES:

- 6.1 The intake of each of these program shall be decided by the Board of Management of the University from time to time subject to the approval of the regulatory body / Council, if any.
- 6.2 Fee of these programs will be decided by the Board of the Management subject to the approval of the regulatory body, if any.

## 7. DURATION OF COURSE AND ATTENDANCE:

- 7.1 The student shall have to undergo study for a period of three years after the admission.
- 7.2 The student shall have to attend minimum seventy-five per cent. of total lectures, practicals and clinical tutorials or classes to become eligible for appearing in the examination or as per attendance Policy of University.
- 7.3 The student shall have to attend the hospital and other duties as may be assigned to him during the course of study.
- 7.4 The students of clinical subject shall have to do Resident duties in their respective departments and student of nonclinical subject shall have duties in their respective departments like Pharmacy or Herbal Garden or Laboratory during the course of study.
- 7.5 The students shall attend special lectures, demonstrations, seminars, study tours and such other activities as arranged by the teaching departments.

7.6 The maximum duration for completion of the course shall not exceed beyond the period of six years from the date of admission to the course or as per Policy of University.

7.7 Web based centralized biometric attendance system shall be required for the attendance of post-graduate students and manual attendance at department level in which student is pursuing the post-graduate course.

**8. MEDIUM OF INSTRUCTION:**

The medium of instruction and examination shall be Urdu or Hindi or English.

**9. MIGRATION:**

Migration/transfer of students undergoing any postgraduate course shall not be permitted by any University or any authority.

**10. EXAMINATION AND ASSESSMENTS:**

10.1 The post-graduate degree course shall have two examinations in the following manner: -

10.1.1 The preliminary examination shall be conducted at the end of one academic year after admission;

10.1.2 The final examination shall be conducted on completion of three academic years after the admission to postgraduate course;

10.1.3 Examination shall ordinarily be held in the month of June or July and November or December every year;

10.1.4 For being declared successful in the examination, student shall have to pass all the subjects separately in preliminary examination;

10.1.5 The student shall be required to obtain aggregate fifty per cent. marks in practical and theory subjects separately to be announced as pass;

10.1.6 If a student fails in preliminary examination, he shall have to pass before appearing in the final examination;

10.1.7 If the student fails in theory or practical in the final examination, he may appear in the subsequent examination ~~without~~ requiring to submit a fresh dissertation;

- To behave in a manner which establishes professional relationships with patients and colleagues
- Ability to work in team
- A critical enquiring approach to the acquisition of knowledge

The methods used mainly consist of observation. It is appreciated that these items require a degree of subjective assessment by the guide, supervisors and peers.

#### 10.7 Acquisition of Knowledge:

The methods used comprise of 'Log Book' which records participation in various teaching / learning activities by the students. The number of activities attended and the number in which presentations are made are to be recorded. The log book should periodically be validated by the supervisors. Some of the activities are listed. The list is not complete. Institutions may include additional activities, if so, desired.

- Journal Review Meeting (Journal Club): The ability to do literature search, in depth study, presentation skills, and use of audio- visual aids are to be assessed. The assessment is made by faculty members and peers attending the meeting using a checklist
- Seminars / Symposia: The topics should be assigned to the student well in advance to facilitate in depth study. The ability to do literature search, in depth study, presentation skills and use of audio- visual aids are to be assessed using a checklist
- Clinico-pathological conferences: This should be a multidisciplinary case study of an interesting case to train the candidate to solve diagnostic and therapeutic problems by using an analytical approach. The presenter(s) are to be assessed using a check list similar to that used for seminar.
- Medical Audit: Periodic morbidity and mortality meeting be held. Attendance and participation in these must be insisted upon. This may not be included in assessment.

10.8 **Teaching skills:** Candidates should be encouraged to teach undergraduate medical students and paramedical students, if any. This performance should be based on assessment by the faculty members of the department and from feedback from the undergraduate students.

- 10.1.8 The subsequent examination for failed candidates will be conducted at every six months interval; and
- 10.1.9 The post-graduate degree shall be conferred after the dissertation is accepted and the student passes the final examination.
- 10.2 The examination shall be aimed to test the clinical acumen, ability and working knowledge of the student in the practical aspect of the specialty and his fitness to work independently as a specialist.
- 10.3 The clinical examination shall be judge the competence of the student in Unani and scientific literature of the specialty.
- 10.4 The viva-voce part of the practical examination shall involve extensive discussion on any aspect of subject or specialty.
- 10.5 **Monitoring learning progress:**  
It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring should be done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects.

The learning out comes to be assessed should include:

- (i) Personal Attitudes,
- (ii) Acquisition of Knowledge,
- (iii) Clinical and operative skills,
- (iv) Teaching skills and
- (v) Dissertation.

**10.6 Personal Attitudes. The essential items are:**

- Caring attitudes
- Initiative
- Organisational ability
- Potential to cope with stressful situations and undertake responsibility
- Trust worthiness and reliability
- To understand and communicate intelligibly with patients and others

**10.9 Method of training:**

- 10.9.1 In the first year of the course, the students shall have to acquire knowledge in the applied aspects of the fundamentals of Unani.
- 10.9.2 Intensive training shall be provided in classical knowledge along with comparative and critical study in the respective specialty.
- 10.9.3 The emphasis shall be given on intensive applied and hands on training.
- 10.9.4 The students shall have to acquire the knowledge about the methods and techniques of research in the respective fields making use of information technology.
- 10.9.5 In clinical subjects, students shall undertake responsibility in management and treatment of patients independently and deal with emergencies.
- 10.9.6 The student shall undertake training in teaching technology and research methods and shall participate in the teaching and training programs of under-graduate students or interns in the respective subjects during the course of studies.
- 10.9.7 In the clinical training, the student shall have to acquire the knowledge of independent work as a specialist.
- 10.9.8 In the specialties of Moalajat, Ilmul Jarahat, Amraze Uzn, Anf wa Halaq and Qabalat wa Amraze Niswan the student shall have to undergo training of investigative procedures, techniques and surgical performance of procedures and management in the respective specialty.

**11. DISSERTATION/THESIS:**

- 11.1 Central Scientific Advisory Post Graduate Committee appointed by Central Council of Indian Medicine shall suggest the areas of Research and topics to be focussed every academic year to make campaigning of evidence based Unani to the need of global standards and achieve publications and the same shall be followed by University Committee while approving the Dissertation title.
- 11.2 The title of the dissertation along with the synopsis, with approval of the Ethics Committee constituted by the institute as per regulations of concerned recognised University or guidelines of Indian Council of Medical Research (ICMR), shall be submitted to the University within a period of six months from the date of admission to post-graduate course.



- 11.3 If a non-clinical subject student takes a thesis topic involving clinical trials then he/she shall work under co-guide of a clinical teacher of the specialty concerned for preparing the thesis.
- 11.4 A copy of the synopsis of the dissertation shall be submitted to the Central Council of Indian Medicine's Scientific Committee before submitting to the University.
- 11.5 If the student fails to submit the title of dissertation and synopsis within the period specified under sub-regulation (2), his terms for final post-graduate course shall be extended for six months or more in accordance with the time of submission of the synopsis to the University.
- 11.6 The synopsis of the proposed scheme of work shall indicate the expertise and action plan of work of the student relating to the proposed theme of work, the name of the department and the name and designation of the guide or supervisor and co-guide (if any).  
The University shall approve the synopsis not later than three months after submission of the synopsis.
- 11.7 A Board of Research Studies shall be constituted by the University for approving the title.
- 11.8 The University shall display the approved synopsis of dissertation on their website.
- 11.9 The subject of every dissertation shall be research oriented, practical oriented, innovative and helpful in the development of Unani system and the subject of the dissertation shall have relation with the subject matter of the specialty.
- 11.10 Once the title for dissertation is approved by the Board of Research Studies of the University, the student shall not be allowed to change the title of the proposed theme of work without permission of the University.
- 11.11 No student shall be allowed to submit the dissertation before six months of completion of course and the student shall continue his regular study in the institution after submission of dissertation to complete three years.
- 11.12 The dissertation shall contain the methods and data of the research carried out by the student on the problem selected by him and completed under the guidance of the guide or supervisor approved by the University.
- 11.13 The dissertation shall consist critical review of literature, methodology, results of the research, discussion on the basis of research findings of the study,

summary, conclusion and references cited in the dissertation shall be suitable for publication.

- 11.14 The dissertation shall consist of not less than forty thousand words.
- 11.15 The dissertation shall contain, at the end, a summary of not more than one thousand and five hundred words and the conclusion not exceeding one thousand words.
- 11.16 The guide or supervisor shall be a person of status of a Professor or Reader or Lecturer having post-graduate degree or Visiting Professor or a contractual faculty in the post-graduate departments. Visiting faculty will not be considered in teaching strength.
- 11.17 A non-post-graduate teacher, for providing guidance to the post-graduate scholars, shall have minimum five years teaching experience in the concerned or allied subject, however he will not be a guide or co-guide for dissertation.
- 11.18 Five copies of the bound dissertation along with a certificate from the supervisor or guide shall reach the office of the Registrar of the University four months before the final examination.
- 11.19 The dissertation shall be assessed by two external and two internal examiners appointed by the University.
- 11.20 The dissertation shall be accepted only after the approval of examiners appointed under sub-regulation (19) and in case of disapproval by one external examiner, the dissertation shall be referred to third external examiner approved by the University concerned.
- 11.21 If the dissertation is not accepted by two external examiners, the same shall be returned to the student with the remarks of the examiners and the student shall resubmit the dissertation after making necessary improvement in the light of examiners' report to the University within a further period of six months.
- 11.22 The student shall be permitted to appear in the final examination of post-graduate degree course only after approval of the dissertation by the examiners.
- 11.23 Inter-disciplinary research may be done by co-opting the guide or supervisor from the concerned speciality.

#### **SCHEME OF EXAMINATION AND PASSING HEADS:**

- 12.1 University shall conduct examination at the end of three academic years for M.D, M.S. in Unani Courses. University shall conduct not more than two

examinations in a year, with an interval of not less than four and not more than six months between the two examinations.

12.2 M.D/M.S. in Unani examination in any subject shall consist of thesis, theory papers and clinical/practical and oral examination.

12.3 **Passing head and standard of Passing: -**

There will be two heads of passing: -

12.3.1 Four papers of theory shall form one head of passing

12.3.2 Clinical, oral, and practical taken together shall form the second head of Passing

12.3.3 A candidate must pass in both the heads that is the whole examination at one and in the same attempt. A candidate passing in one head and failing to pass in the other head will be declared fail and shall not be entitled to any exemption in the subsequent attempt.

12.4 **To pass a candidate must obtain:**

12.4.1 Fifty percent of the total marks in theory examination (Total of all the four papers must be 50% of the total marks of theory).

12.4.2 Fifty percent of the total marks in clinical, oral and practical taken together.

12.5 **Declaration of distinction:** A successful candidate passing the University examination in first attempt will be declared to have passed the examination with distinction, if the grand total aggregate marks is 75 percent and above. Distinction will not be awarded for candidates passing the examination in more than one attempt.

### 13. **SUBJECTS OF EXAMINATION:**

13.1 The preliminary examination at the end of one academic year after admission shall be conducted in the following subjects, namely: -

#### **Paper I**

Part A - Research Methodology;

Part B - Bio or Medical Statistics;

#### **Paper II**

Part A - Applied aspects of fundamentals regarding concerned subjects;

**Part B - Concerned subject.**

- 13.2 The student shall have to undergo training in the department concerned and shall maintain month-wise record of the work done during the last two years of study in the specialty opted by him as under: -
- 13.2.1 Study of literature related to specialty;
  - 13.2.2 Regular clinical training in the hospital for student of clinical subject;
  - 13.2.3 Practical training of research work carried out in the department, for student of non-clinical subject;
  - 13.2.4 Participation in various seminars, symposia and discussions; and
  - 13.2.5 Progress of the work done on the topic of dissertation.
- 13.3 The assessment of the work done by the students of first year post-graduate course during the first year shall be done before the preliminary examination.
- 13.4 The final examination shall include dissertation, written papers and clinical or practical and oral examination.
- 13.5 There shall be four theory papers in each specialty and one practical or clinical and viya-voce examination in the concerned specialty or group of sub-specialties selected by the student for special study.
- 13.6 The student shall publish or get accepted minimum one research paper on his research work in one journal and one paper presentation in regional level seminar.

**Note:** Syllabus, Scheme & Evaluation of the examination shall be decided by the Academic council of the University from time to time as per guidelines from statutory body/ Council.

**Note:** Internship will start after the declaration of final year B.N.Y.S. examination result and Registration of State Medicine Council.

**14. MODE OF EXAMINATION AND APPOINTMENT OF EXAMINER(S):**

- 14.1 The preliminary examination and final examination shall be held in written, practical, clinical and oral examination.
- 14.2 The preliminary examination shall be conducted by a team of two examiners, out of which one examiner shall be external from any other institution and final

examination shall be conducted by a team of four examiners, out of which two examiners shall be external from any other institution.

- 14.3 A teacher with five years teaching or research experience in concerned subject or specialty shall be considered eligible for being appointed as an examiner.

**15. SCHEME OF EVALUATION:**

The Scheme of evaluation external and internal assessment shall be as per decision of Board of Management on the recommendation of Board of Studies.

**16. CONDONATION OF DEFICIENCY:**

The grace marks shall be allowed according to the general ordinance relating to "Award of Grace Marks".

**17. CANCELLATION OF ADMISSION:**

Admission of a student may be cancelled under following circumstances.

- 17.1 At any stage, if student is not found qualified, for the Program, as per government norms/ guidelines or the eligibility criteria prescribed by the University.
- 17.2 Total duration to complete the course will be as per policy of University.
- 17.3 Involvement in gross indiscipline in the Institute / University.
- 17.4 He/She is found to have produced false/ forged documents or found to have used unfair means to secure admission.

**18. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 68**  
**Establishment under M.P. Act No. 17 of 2007**  
**BACHELOR OF NATUROPATHY & YOGIC SCIENCES (B.N.Y.S.)**

This ordinance shall provide regulation of MALWANCHAL UNIVERSITY running Bachelor degree Program in Naturopathy & Yogic Sciences (B.N.Y.S.). The programme shall be governed by the norms, rules and guidelines of the concerned, Department of AYUSH, Ministry of Health and Family Welfare, Government of India and the policies of MP state Government.

**STRUCTURE OF B.N.Y.S. PROGRAM**

The duration of the programme of Bachelor of Naturopathy & Yogic Sciences (B.N.Y.S.) is Five and Half Year (5 and 1/2 year), including Compulsory rotatory internship of one year:-

First Professional session	(12 month)
Second Professional session	(12 month)
Third Professional session	(12 month)
Final Professional session	(12 month)
Compulsory Rotatory Internship	(18 month)

**1. AIMS AND OBJECTIVES:**

**1.1 AIMS:**

- 1.1.1 To facilitate the growth and development of Naturopathy and Yogic Science education.
- 1.1.2 To impart high quality graduate training in all branches of Naturopathy and yogic Sciences.
- 1.1.3 To envision, organize and conduct research on various aspects of Naturopathy and Yogic Sciences.
- 1.1.4 To establish a centre of excellence that provides Naturopathy and Yogic Sciences medical care to suffering humanity.
- 1.1.5 To promote sustainable development of higher education consistent with statutory and regulatory requirements.
- 1.1.6 To plan and continuously provide necessary infrastructure, learning resources required for quality education and innovations.
- 1.1.7 To stimulate to extend the frontiers of knowledge, through faculty development and continuing education programs.
- 1.1.8 To make research a significant activity involving staff, students and society.
- 1.1.9 To promote industry/organization, interaction/collaborations with regional / national / international bodies.
- 1.1.10 To establish healthy systems for communication among all stakeholders for vision oriented growth.
- 1.1.11 To fulfil the national obligation through rural health missions.

**1.2 OBJECTIVES:**

The objective of the course shall allow the students:

- 1.2.1 To effectively integrate the conventional basic sciences (e.g. human physiology) with the traditional medical systems and to enhance the understanding of their effects and therapeutic potential;

- 1.2.2 To provide state of the art learning facilities to conceptualize the ancient medical system.
- 1.2.3 To implement effectively the programs through creativity and innovation in teaching, learning and evaluation.
- 1.2.4 To make existing programs more career oriented through effective system of review and redesign of curriculum.
- 1.2.5 To impart spirit of enquiry and scientific temperament among students through research oriented activities.
- 1.2.6 To enhance reading and learning capabilities among faculty and students and inculcate sense of lifelong learning.
- 1.2.7 To promulgate process for effective, continuous, objective oriented student performance evaluation.
- 1.2.8 To ordinate periodic performance evaluation of the faculty.
- 1.2.9 To incorporate themes to build values, civic responsibilities & sense of national integrity.
- 1.2.10 To ensure that the academic, career & personal counselling are in-built into the system of curriculum delivery.
- 1.2.11 To strengthen, develop and implement staff and student welfare programs.
- 1.2.12 To adopt and implement principles of participation, transparency and accountability in governance of academic and administrative activities.
- 1.2.13 To constantly display sensitivity and respond to changing educational, social, and community demands.
- 1.2.14 To promote public- private partnership
- 1.2.15 To acquire adequate theoretical & practical knowledge in the basic medical subjects.
- 1.2.16 To enable the student to acquire skills in the evaluation & diagnosis of the physical problems presented by the patients.
- 1.2.17 To build up a learning process that shall include living experience, problem oriented approach, case studies & community health care activities.

## **2. ACADEMIC QUALIFICATION & SELECTION CRITERIA FOR ADMISSION:**

- 2.1 Admission to the First year in Bachelor of Naturopathy & Yogic Sciences degree course (B.N.Y.S.) shall be 10+2 system of education in science group or equivalent examination with Chemistry, Physics & Biology, as main subjects conducted by a recognized Board/Council/ University with minimum of 45% marks. However for SC/ST/OBC candidate the percentage will be relaxed to as per direction of statutory body/ Council.
- 2.2 Admission shall be made through the State and All India counselling of NEET qualified candidates or in the absence of entrance examination purely on merit on the basis of marks obtained in qualifying examination.
- 2.3 The minimum age for admission shall be 17 years on 31<sup>st</sup> December of academic year of admission, but have not crossed the age of 25 years as on that date, are eligible to apply.
- 2.4 On admission, every candidate shall have to get fitness certificate from MU Hospital.
- 2.5 The course shall be commencing from the as per apex council/university schedule of every academic year.

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**3. MEDIUM OF INSTRUCTION:**

Medium of Instruction shall be English or Hindi.

**4. COURSE CURRICULUM**

Bachelor of Naturopathy & Yogic Sciences (BNYS) provides basic education in the integrated system of modern medicine and traditional Naturopathy & Yogic Sciences. It prepares of students of profound scholarship in the science of Naturopathy & Yogic Sciences having basic and fundamental knowledge in different subjects of Naturopathy & Yogic Sciences backed up the extensive practical training.

First Professional BNYS 12 Months	Second Professional BNYS 12 Months	Third Professional BNYS 12 Months	First Professional BNYS 18 Months
Anatomy-I	Pathology	Manipulative Therapies	Fasting Therapy & Dietetics
Anatomy-II	Microbiology	Acupuncture & Acupressure	Obstetrics and Gynaecology
Physiology-I	Community Medicine	Yoga and its applications	Yoga Therapy
Physiology-II	Yoga Philosophy	Nutrition & Medicinal herbs	Hydrotherapy & Mud Therapy
Biochemistry	Basic Pharmacology	Diagnostic Methods-I (Naturopathy)	Physical Medicine & Rehabilitation
Philosophy of Nature	Colour Therapy and Magneto biology	Diagnostic Methods-II (Conventional Medicine)	First Aid & Emergencies Medicine
Principles of Yoga	Forensic Medicine & Toxicology	Psychology & Basic Psychiatry	Clinical Naturopathy
Sanskrit(Non Exam)			Research Methodology & Recent Advances

A Candidate after passing final B.N.Y.S. Medical Degree Examination shall undergo the compulsory rotatory internship of one Year duration.

The duration of Undergraduate Medical degree in Yoga and Naturopathy (BYNS) is five and half years.

**5. REQUIREMENTS FOR EXAMINATION AND ATTENDANCE:**

Examination will be conducted by the university:

Examination shall be in Theory, Practical and Clinical. A candidate will be permitted to appear for the University Examination in the subject only if:

- He has not less than 75% of attendance in Theory and 80% Practical/Clinical in each subject or as per policy of University.
- He obtains a Progress Certificate from Head of the institution of having satisfactory completed the course of study prescribed in the subject as required by the regulations and his conduct has been satisfactory.



**6. SCHEME OF EXAMINATION:**

The examinations are to be conducted to assess whether the candidate has acquired the necessary minimum skill and clear concepts of the fundamentals essential for day to day professional work.

6.1 The students desirous for appearing for the University Examination shall submit the application form duly filled in along with prescribed examination fees. Incomplete application form submitted without prescribed fee or application form submitted after due date will be rejected; and student shall not be allowed to appear for the examination.

6.2 A student who satisfies the clause 2 and following requirements duly certified by the Principal of the B.N.Y.S. College/Institution recognized by this University for B.N.Y.S. course shall be eligible to appear in the first/ second/Third/Final year B.N.Y.S. examination:

6.2.1 of having good character;

6.2.2 of having attended the prescribed course;

6.2.3 of having attended not less than:

- 75% of all course of lectures delivered; and
- 80% of full course of practical/ Clinical held separately.

**6.3 Internal assessment:**

6.3.1 It shall be based on day to day assessment (see note), evaluation of student assignment, preparation for seminar, clinical case presentation etc.

6.3.2 Regular periodical examinations shall be conducted throughout the course. The question of number of examinations is decided by to the institution/University.

6.3.3 Day to day records should be given importance during internal assessment.

6.3.4 Weightage for the internal assessment shall be 20% of the total marks in each subject.

Note: Internal assessment shall relate to different ways in which student's participation in learning process during semesters is evaluated, some examples are as follows.

- Preparation of subject for students' seminar.
- Preparation of a clinical case for discussion.
- Clinical case study/problem solving exercise.
- Participation in project for health care in the community (Planning stage to evaluation).
- Proficiency in carrying out a practical or a skill in small research project.
- Multiple choices questions/Very Short Questions (MCQ/VSQs) test after completion of a system/teaching.

Each item tested shall be objectively assessed and recorded. Some of the items can be assigned as Home work/Vacation work.

**6.4 Criteria for Passing:**

6.4.1 In all the University examinations, the candidate shall have to obtain 50% marks separately in Theory plus viva voce plus internal Assessment and Practical plus Internal Assessment examination separately.

6.4.2 The candidate must secure minimum 50% marks in each head of passing. There shall be three head of passing i.e. Theory, Practical & Internal Assessment. However candidate securing 35% marks in internal Assessment will have to compensate 15% marks in University examination – Theory/Practical to pass the Subject.

6.4.3 The grace marks shall be allowed according to the general ordinance relating to "Award of Grace Marks"

6.5 Each Theory paper will be of three hours.

6.6 Syllabus, Scheme & Evaluation of the examination shall be decided by the Academic council of the University from time to time as per guidelines from statutory body/ Council.

NOTE: Internship will start after the declaration of final year B.N.Y.S. examination result and Registration of State Medicine Council.

#### 7. **FEE:**

The examination fee to be paid by a candidate shall be as per University norms for each examination, or a part thereof.

#### 8. **DIVISION AND MERIT LIST:**

8.1 The Division shall be awarded after Annual University Examination in each academic year and shall be based on the aggregate marks obtained by the candidates at his/ her successful attempt in annual University Examination.

**There shall be Divisions as follows:**

**Distinction** : 75% and above of grand total marks in First attempt.

**First Division** : >60% and <75% of grand total marks in First attempt.

**Second Division** : >50% and <60% of grand total marks in First attempt.

**Distinction in individual subject:** >75% marks in individual subject shall be indicated exclusively in the mark sheet provided in First attempt.

8.2 The merit shall be declared by the University after the final year University examination, on the basis of the aggregate marks of all academic years in University examination, the merit list shall include the first 5 candidates securing at least First Division and passing all the appeared subjects in annual examination in first attempt.

#### 9. **RE-EVALUATION/ RE-TOTALING:**

9.1 Student may apply for Re-evaluation and/or Re-totalling of the answer sheet of the appeared subject; post result for any doubt in the marks obtained.

9.2 Student may go for all the appeared subjects of that session for Re-evaluation as well as Re-totalling simultaneously, within stipulated time, as prescribed by the University.

#### 10. **GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 69**  
**Establishment under M.P. Act No. 17 of 2007**  
**POST GRADUATE DIPLOMA IN YOGA & NATUROPATHY**  
**(PGDYN)**

These general rules are subject to alterations from time to time. The Post Graduate Diploma degree shall be conferred after the acceptance of project and passing in examination (Written, Viva and Practical / Clinical).

**1. PROGRAMME'S MISSION:**

Yoga is an ancient Indian system and is essentially spiritual. It has potential for both prevention of diseases and promotion of health. The holistic approach of Yoga brings harmony in all walks of life and also influences our day-to-day living. It brings suitable changes in the behavioral pattern and attitude thereby helps to improve the inter-personal relationship at home and also in the society. Therapeutic benefits of Yoga have also been revealed by many scientific researches carried out across the globe. Today, Yoga has become popular because of its strengths in prevention and management of many lifestyle related disorders including physiological and psychosomatic disorders.

**2. OBJECTIVES:**

- 2.1 The course will provide deeper insight into the curriculum of Yogic Sciences along with the therapeutic applications of Yoga and alternative therapies
- 2.2 At the PG level it is also intended that students should get familiar with the original texts of Yoga.
- 2.3 Promoting Positive Health in the Student through Yoga and enabling and imparting skill in them to practice and apply Yogic practices for Health to general public and teach Yoga for Total personality development and spiritual evolution.
- 2.4 Invoking and inculcating inquisitive, scientific temper in student regarding the Traditional Indian Sciences specially Yoga and Spirituality.
- 2.5 A research attitude and orientation will also be inculcated into the student so that they further become able to undertake advance and theoretical and applied researches in the field of Yoga and Alternative Therapies.

**3. RELEVANCE OF THE PROGRAMME:**

This programme is being offered in the sequence of University's Mission to uplift educational, social economic and cultural status of under-privileged people. It will promote value based and job oriented education along with quality of learning and research in the technologically enabled environment.

This programme will support the Vision of the University of attaining peak of excellence in the dissemination of knowledge and learning with a view to develop global competencies and contribution to national development by generating trained manpower.

**4. NATURE OF PROSPECTIVE TARGET GROUP OF LEARNER:**

While considering the local, regional and National needs of skills, education and training in Yoga & Naturopathy, the programmes is designed in such a way that it will fill the gap of knowledge and give a chance to all spirants who are seeking their career in Yoga &

Naturopathy. The programme invited all interested aspirants who have a graduation degree in any discipline and having their orientation towards Yoga &, Allied disciplines.

**5. PROCEDURE FOR ADMISSIONS, CURRICULUM TRANSACTION AND EVALUATION:**

Admission notice will be published in major national and local Newspaper, Website of the University and also displayed on the Notice boards of the concerned departments of the university.

**6. PROGRAMME STRUCTURE:**

The PGDYN Programme consists of 06 papers including one project work, details are as:

Paper Code	Name of Paper	Max. Marks (100)		Min. Marks (40)	Credit (32)
Theory Paper		End Term (70)	Assignment (30)		
PGDYN 101	Fundamental of Yoga	70	30	40	6
PGDYN 102	Anatomy Physiology & Yoga	70	30	40	6
PGDYN 103	Holistice Health & Yoga Therapy	70	30	40	6
PGDYN 104	Principles of Naturopathy	70	30	40	6
PGDYN 105	Yoga Practical	70	30	40	6
PGDYN 106	Project Work <i>Naturopathy Project</i>	Dissertation (70)	Viva-Voce (30)	40	2

**7. QUALITY ASSURANCE MECHANISM AND EXPECTED PROGRAMME OUTCOMES:**

To maintain the quality of the programme, an internal quality assurance cell of the university will keep watch and suggest measures to improve the functioning of the programme in terms of quality of study materials, examination and evaluation. The expected outcomes of the programme are multifarious. The learners will develop sensitivity, knowledge, understanding and skills to understand the dynamic environment of organization around them. In addition, they will get job offers in various corporate sectors, governmental and non-governmental organizations.

**8. DURATION OF THE PROGRAMME:**

The duration of the programme will be one year.

**9. ELIGIBILITY FOR ADMISSION**

For admission to P.G. Diploma in Yoga & Naturopathy the minimum requirements are:

- 9.1 Bachelor's Degree in any discipline from a recognized University.
- 9.2 Candidates intending to join the P.G. Diploma in Yoga & Naturopathy course shall submit his/her application in the prescribed form along with requisite enclosures, so as to reach the office of the Vice-Chancellor, MALWANCHAL UNIVERSITY Indore, within the time and date notified for.
- 9.3 The candidates will be granted admission according to university rules.

**10. INTAKE & FEES:**

- 10.1 The intake for each of these Programs shall be decided by the Board of Management of the University from time to time subject to the approval of the regulatory body.
- 10.2 Fees of these Programs will be decided by the Board of Management subject to the approval of regulatory body.

**11. PASS PERCENTAGE AND DIVISION/CLASS**

Division shall be awarded to the successful candidates on the aggregate marks obtained by him/her, in accordance with the following 10 point scale, viz,

PERCENTAGE OF MARKS	GRAD POINT	LATTER GRADE & CLASS
91-100	10	O First Class (Outstanding)
75-90	9	A+ First Class (Excellent)
65-74	8	A First Class (Very Good)
55-64	7	B+ Second Class (Good)
50-54	6	B Second Class (Above Average)
45-49	5	C Third Class (Average)
40-44	4	P (Pass)
0-39	0	F (Fail)
Absent	0	Ab. (Absent)

**12. Eligibility for Supplementary Examination:**

- 12.1 Candidates securing less than 40% marks in individual papers i.e. Incomplete Grade will be treated as supplementary case. They can reappear at the subsequent examination in the papers concerned.
- 12.2 A candidate declared eligible for supplementary, shall be required to clear the same in next two; subsequent attempts (which will be held in next sessions). Any un-availed attempt shall be treated automatically forfeited and after expiry of this duration (two subsequent sessions); he/ she will be deemed to have failed in the examination. Further no extra opportunity shall be given to such failed candidates.
- 12.3 The grace marks shall be allowed according to the general ordinance relating to "Award of Grace Marks".

**13. GENERAL INSTRUCTIONS:**

- 13.1 Registration in the PGDYN course will be as per the university academic schedule for the session.

- 13.2 The procedure of registration, form of registration, schedule of registration and other relevant details will be displayed on the official website of the Vishwavidyalaya.

**14. SCHEME OF EXAMINATION:**

The question paper for the End Semester Examination shall be of Three hours duration and shall be set as per the following Sections:

Examination	Syllabus Content	Maximum Marks	Mode of Examination
Internal/Practical	Entire Syllabus	30 Marks	Practical/Internal
Theory	Entire Syllabus	70 Marks	Written Exam

**15. INTERNAL EXAMINATION/ ASSIGNMENT:**

Assignment shall have 5 (Five) Essay/Long Answer type Questions of 6 (six) marks each. All Questions shall be compulsory. Thus, the maximum marks for assignments will be of 30 marks for each theory paper. It should be hand written by the student.

**17. FINAL EXAMINATION:**

Final/End Semester Examination shall have two questions from each block with internal choice. This examination will carry 70 marks. The scheme of examination and the scope of studies in different papers shall be in accordance with the university rules and regulations duly passed/ adopted by Board of Study and Academic Council.

**18. EVALUATION:**

The evaluation of the internal examination will be conducted by internal examiners of the University appointed by the competent authority. The evaluation of external examination shall be conducted by the Controller of Examination as per the norms of the University.

**19. CANCELLATION OF ADMISSION:**

Admission of a student may be cancelled under following circumstances.

- 19.1 At any stage, if student is not found qualified, for the course, as per government norms/ guidelines or the eligibility criteria prescribed by the University.
- 19.2 Failing to complete the program within six years of commencement of the course.
- 19.3 Involvement in gross indiscipline in the Institute / University.
- 19.4 He/ She is found to have produced false/ forged documents or found to have used unfair means to secure admission.

**20. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 70**  
**Establishment under M.P. Act No. 17 of 2007**  
**BACHELOR IN AUDIOLOGY AND SPEECH-LANGUAGE**  
**PATHOLOGY (B.ASLP)**  
**(Semester scheme)**

**1. NOMENCLATURE:**

As per UGC Notification of 2014, the nomenclature of the program shall be Bachelor in Audiology and Speech-Language Pathology. B. ASLP is the short form.

**2. OBJECTIVES OF THE B.ASLP PROGRAM:**

The objectives of the B.ASLP program are to equip the students with knowledge and skills to

- 2.1 Function as audiologists and speech-language pathologists in different work settings.
- 2.2 Understand concepts in speech, language, communication, hearing and disability.
- 2.3 Screen, evaluate, diagnose and assess the severity of different disorders related to speech, language, swallowing and hearing.
- 2.4 Manage speech, language, swallowing and hearing disorders across life span.
- 2.5 Counsel persons with disorders of communication and their family members.
- 2.6 Rehabilitate persons with speech, language, swallowing and hearing disorders.
- 2.7 Prevent speech, language, swallowing and hearing disorders.
- 2.8 Liaise with professionals in allied fields and other stake holder
- 2.9 Implement public awareness and education program,
- 2.10 Undertake advocacy measures on behalf of and for persons with speech language and hearing disorders.

**3. DURATION OF THE PROGRAM:**

- 3.1 The program shall be of 4 academic years including 1 year of internship and should be completed within six years from the date of admission.
- 3.2 An academic year consists of two semesters, and each semester shall extend over a minimum period of sixteen weeks excluding examination days. The semesters shall be spread out as follows:
 

Odd semester – 1	July – December
Odd semesters – 3, 5, 7	June – October/November
Even semesters – 2, 4, 6, 8	December – April
- 3.3 There shall be examinations at the end of each semester. There shall be a vacation of minimum 1 week after the examinations at the end of odd semesters and 3 weeks after the examinations at the end of even semesters.
- 3.4 Number of working days in a semester shall not be more than 117 days.

**4. ELIGIBILITY FOR ADMISSION:**

- 4.1 The candidate applying for admission to B.ASLP program should have passed 10+2 examination or an equivalent examination conducted by the Pre University Board of Education of the respective State Government securing a minimum of

50% marks. Relaxation in the qualifying marks shall be as per rules and regulations State/UTs or Central Government.

- 4.2 The applicant/candidate should have studied Physics, Chemistry and any one of Biology / Mathematics / Computer Science / Statistics / Electronics / Psychology.
- 4.3 Applicants shall not be older than 25 years on the 1<sup>st</sup> July of the year of admission.

## 5. PROGRAM STRUCTURE:

Time structure of the program shall be as follows:			
16 weeks / Semester		16 weeks (Minimum)	
If 6 days / week		94 days (Minimum)	
6 hours / day		560 hours per semester	
Semester 1	Theory	6 papers x 60 hours	360 hours
	Clinical		200 hours
Semester 2	Theory	4 papers x 60 hours	240 hours
	Practicals		320 hours
Semester 3	Theory	4 papers x 60 hours	240 hours
	Clinicals		320 hours
Semester 4	Theory	4 papers x 60 hours	240 hours
	Clinicals		320 hours
Semester 5	Theory	4 papers x 60 hours	240 hours
	Clinicals		320 hours
Semester 6	Theory	4 papers x 60 hours	240 hours
	Clinicals		320 hours
Theory		360 + (240 x 5)	1560 hours
Clinicals		200+320 + (320 x 4)	1800 hours
Internship		18 weeks per semester	36 weeks
		5 days / week	180 days
		7 hours / day	1260 hours
		If 6 days / week	210 days
		Then 6 hours / day	1260 hours



<b>Total: 6 semesters 560 hours x 6 semesters</b>			3360 hours
<b>Internship</b>	630 hours x 2 semesters		1260 hours
<b>Total</b>	Theory		1560 hours
<b>Total</b>	Clinicals		3060 hours
<b>Grand Total</b>			<b>4620 hours</b>

## 6. ATTENDANCE:

- 6.1 Minimum attendance shall be shall not be less than 90% in theory and 90% in Clinical/ Practicals in each semester to be eligible to appear for examination at the end of each semester or as per University Policy.
- 6.2 Candidates who cannot appear for the examination for want of attendance will have to repeat the particular semester to be eligible to appear for exams subsequently.
- 6.3 If a candidate represents his/her Institution/ University/ MP State/ Nation in Sports/NCC/NSS/Extension programmes or any official activities, he/she is permitted to avail a maximum of 15 days in an academic session, based on the recommendation and prior permission of the Head of the Institution.
- 6.4 Condonation of shortage of attendance in genuine cases to a maximum of 10% shall be from the Vice-Chancellor through proper channel (forwarded through course-coordinator/Principal/In-charge of respective collage/institute).

## 7. EXAMINATION PATTERN:

- 7.1 The examination pattern and papers shall be as shown in the table below:

No.	Title of the paper	Practical	IA	Exam	Total
<b>B.ASLP Semester 1</b>					
B 1.1	Communication Sciences	--	25	75	100
B 1.2	Anatomy and Physiology of Speech and Hearing	--	25	75	100
B 1.3	Clinical Psychology	--	25	75	100
B 1.4	Linguistics and Phonetics	--	25	75	100
B 1.5	Electronics and Acoustics	--	25	75	100
B 1.6	Research Methods and Statistics	--	25	75	100
<b>B.ASLP Semester 2</b>					
B 2.1	Neurology	--	25	75	100
B 2.2	Otolaryngology	--	25	75	100

B 2.3	Speech-Language Pathology	--	25	75	100
B 2.4	Audiology	--	25	75	100
B 2.5	Clinical Practicum in Speech-language Pathology	--	25	75	100
B 2.6	Clinical Practicum in Audiology	--	25	75	100
<b>B.ASLP Semester 3</b>					
B 3.1	Voice and its Disorders	25	25	50	100
B 3.2	Speech Sound Disorders	25	25	50	100
B 3.3	Diagnostic Audiology - Behavioral Tests	25	25	50	100
B 3.4	Amplification Devices	25	25	50	100
B 3.5	Clinical Practicum in Speech-language Pathology	--	25	75	100
B 3.6	Clinical Practicum in Audiology	--	25	75	100
<b>B.ASLP Semester 4</b>					
B 4.1	Motor Speech Disorders in Children	25	25	50	100
B 4.2	Child Language Disorders	25	25	50	100
B 4.3	Diagnostic Audiology - Physiological Tests	25	25	50	100
B 4.4	Implantable Hearing Devices	25	25	50	100
B 4.5	Clinical Practicum in Speech-language Pathology	--	25	75	100
B 4.6	Clinical Practicum in Audiology	--	25	75	100
<b>B.ASLP Semester 5</b>					
B 5.1	Structural Anomalies & Speech Disorders	25	25	50	100
B 5.2	Fluency and its Disorders	25	25	50	100
B 5.3	Pediatric Audiology	25	25	50	100
B 5.4	Aural Rehabilitation in Children	25	25	50	100
B 5.5	Clinical Practicum in Speech-language Pathology	--	25	75	100

B 5.6	Clinical Practicum in Audiology	--	25	75	100
<b>B.ASLP Semester 6</b>					
B 6.1	Motor Speech Disorders in Adults	25	25	50	100
B 6.2	Language Disorders in Adults	25	25	50	100
B 6.3	Aural Rehabilitation in Adults	25	25	50	100
B 6.4	Audiology in Practice	25	25	50	100
B 6.5	Clinical Practicum in Speech-language Pathology	--	25	75	100
B 6.6	Clinical Practicum in Audiology	--	25	75	100
<b>B.ASLP Semester 7 &amp; 8</b>					
B 7.1	Clinical Practicum in Speech-language Pathology	--	--	100	100
B 7.2	Clinical Practicum in Audiology	--	--	100	100
<b>Gross Total</b>		<b>400</b>	<b>900</b>	<b>2500</b>	<b>3800</b>

- 7.2 Practical exams at the end of 2<sup>nd</sup> semester shall be University exam and shall be conducted by an external examiner along with an internal examiner. Record of practicals maintained by the students as per respective curriculum shall also be evaluated by the examiners. Re-evaluation of university practicum examination can't be claimed.
- 7.3 Performance in at least two written tests and one group assignment shall be the basis for awarding internal assessment marks in each semester
- 7.4 All external (university) clinical examinations shall be conducted by one internal and one external examiner. B7.1 and B7.2 in the above table shall be conducted at the end of internship (8th semester).

#### 8. CRITERIA FOR PASSING:

The student is required to obtain a minimum of 50% in each of the theory papers, internal assessment, practical and clinical exams for a pass. Students will not be able to appear for University theory exam if they do not pass in their internal practical, internal theory assessment or clinical component.

- Grace Marks shall be allocated as per university norms.
- Students will have to pass the clinical as well as theoretical internal examination of the given semester to proceed to the next semester.

##### 8.1 **Carry-over of papers**

- 8.1.1 Each paper should be successfully completed within 4 attempts including the first one.

8.1.2 Students can start internship after the 6<sup>th</sup> semester exams. However, students' who fail in their clinical exam of any semester will have to discontinue internship. The candidates are permitted to carry over the theory courses until the end of the program.

9. **CLINICAL INTERNSHIP:**

All candidates shall complete a clinical internship of one academic year (10 months) after the 6<sup>th</sup> semester. The rules and regulations of clinical internship shall be as in Annexure I.

10. **INFRASTRUCTURE FOR STARTING THE COURSE**

As per the guideline of Rehabilitation Council of Indian, New Delhi: Annexure II.

11. **AWARD OF DEGREE:**

The University shall award the degree and issue certificate only after the candidates successfully complete all the University examinations and clinical internship.

12. **OTHERS:**

On all other issues not mentioned in these rules and regulations like the pattern of question paper, grading, award of grace marks, and declaration of rank, among others, the rules and regulations of the respective University shall prevail.

13. **GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 71**  
**Establishment under M.P. Act No. 17 of 2007**  
**MASTER OF SCIENCE IN AUDIOLOGY**  
**(Semester scheme)**

**1. NAME OF THE COURSE OFFERED:**

**NAME OF THE COURSE OFFERED:**  
The nomenclature of the program shall be Master of Science (Audiology). M.Sc. (Aud)  
shall be the short form.

## **2. OBJECTIVES OF THE M.SC. (AUD) PROGRAM:**

**OBJECTIVES OF THE M.Sc. (AUD) PROGRAM:**  
The objectives of the M.Sc. (Aud) program are to equip the students with knowledge and skills to

- 2.1 Function as teachers and researchers in institutions of higher learning,
- 2.2 Diagnose and manage disorders of hearing and balance across life span,
- 2.3 Counsel and guide persons with disorders of hearing and balance as well as their family members,
- 2.4 Implement rehabilitation programs for persons with hearing and balance disorders,
- 2.5 To function as the disability certification authority in the field,
- 2.6 Liaise with professionals in allied fields and other stake holders,
- 2.7 Implement prevention and public education programs,
- 2.8 Undertake advocacy measures on behalf of and for persons with hearing and balance disorders,
- 2.9 Advise government and other institutions on legal and policy issues related to persons with hearing and balance disorders, and
- 2.10 To establish and administer institutions of higher learning in the area.

**3. DURATION OF THE PROGRAM:**

- DURATION OF THE PROGRAM:**
- 3.1 The program shall be of 4 semesters (2 academic years) and should be completed within 4 years from the date of admission or as per University Policy.
- 3.2 An academic year consists of two semesters, and each semester shall extend over a minimum period of sixteen weeks excluding examination days. The semesters shall be spread out as follows:
- |                        |                 |
|------------------------|-----------------|
| Odd semesters – 1 & 3  | July – November |
| Even semesters – 2 & 4 | January – May   |
- 3.3 There shall be examination at the end of each semester. There shall be a vacation of minimum 2 weeks after the examinations at the end of odd semesters and 4 weeks after the examinations at the end of even semesters.

#### 4. MEDIUM OF INSTRUCTION:

**Medium of instruction shall be English.**

## 5. ELIGIBILITY FOR ADMISSION:

- 5.1** Candidates with a B.ASLP or B.Sc (Speech & Hearing) degree of any University recognized by the Rehabilitation Council of India or any other degree considered as equivalent thereto and having an average of not less than 50% of marks are eligible for admission to M.Sc (Aud). "Average" refers to average of

- the aggregate marks obtained in all the years/semesters of the qualifying examination.
- 5.2 Relaxation in the qualifying marks for designated categories of students shall be as per rules and regulations of respective University / State / Union Territories or the Central Government.
- 5.3 Applicants shall not be older than 30 years on the 1<sup>st</sup> July of the year of admission.

#### 6. **PROGRAM STRUCTURE:**

Time structure of the program shall be as follows:

Semesters	4
Weeks per Semester	16
Days per week	6      94 days per semester
Hours per day	6      560 hours per semester

Semester 1	Theory	5 papers x 60 hours	300 hours
	Clinical		240 hours
	Others		20 hours
Semester 2	Theory	4 papers x 60 hours	240 hours
	Clinicals		240 hours
	Others		80 hours
Semester 3	Theory	5 papers x 60 hours	300 hours
	Clinicals		160 hours
	Dissertation		80 hours
	Others		20 hours
Semester 4	Theory	1 paper x 60 hours	60 hours
	Clinicals		160 hours
	Dissertation		320 hours
	Others		20 hours
Theory	300 + 240 + 300 + 60		900 hours
Clinicals	240 + 240 + 160 + 160		800 hours
Dissertation	0+0+80+320		400 hours
Others	20+80+20+20		140 hours

Total		2240 hours
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**7. ATTENDANCE:**

- 7.1 Minimum attendance shall not be less than 80% in theory and 90% in Clinicals in each semester for students to be eligible to appear for examination at the end of each semester or as per University Policy.
- 7.2 Candidates who cannot appear for examination for want of attendance will be declared failed and will have to repeat the particular semester to be eligible to appear for exams subsequently.
- 7.3 Condonation of shortage of attendance in genuine cases to a maximum of 10% shall be from the Vice-Chancellor. Through proper channel(forwarded through course-coordinator/Principal/Incharge/Representative college/Department).

**8. EXAMINATION PATTERN:**

- 8.1 The examination pattern and papers shall be as shown in the table below:

	Subject	Marks		
		Exam	IA	Total
A101	Research Methods, Epidemiology and Statistics	80	20	100
A102	Technology in Audiology	80	20	100
A103	Cochlear Physiology	80	20	100
A104	Neurophysiology of Hearing	80	20	100
A105	Hearing Sciences	80	20	100
A106	Clinicals (Internal)	80	20	100
A201	Auditory Perception	80	20	100
A202	Auditory Disorders	80	20	100
A203	Electrophysiological Assessment	80	20	100
A204	Advances in the Management of Hearing Loss	80	20	100
A205	Clinicals (External)	100	00	100
A301	Genetics of Hearing and Pediatric Audiology	80	20	100
A302	Implantable Auditory Devices	80	20	100

A303	Speech Perception	80	20	100
A304	Auditory Processing Disorders	80	20	100
A305	Vestibular system & its disorders	80	20	100
A306	Clinicals (Internal)	80	20	100
A401	Audiology in Practice	80	20	100
A402	Dissertation	80	20	100
A403	Clinicals (External)	100	00	100
		1640	360	2000

- 8.2 Clinical examinations (for A106 and A306) shall be conducted by the designated internal faculty of the department at the end of 1<sup>st</sup> and 3<sup>rd</sup> semester. IA marks shall be awarded by all the faculty of the department on the basis of the assessment of the candidates' work throughout the particular semester.
- 8.3 Clinical examinations for A 205 and A 403 will be conducted by external examiner(s) at the end of the 2<sup>nd</sup> and 4<sup>th</sup> semester, respectively. Clinical examination shall be with clinical population like in medical profession. The examiners shall also evaluate records of clinical and practical work of the students.
- 8.4 An internal faculty member can assist the external examiner(s) in A 205 and A403 Clinicals (External), but shall not award marks.

## 9. DISSERTATION:

Students shall complete a dissertation in the 3<sup>rd</sup> and 4<sup>th</sup> semester of the course and shall submit the same at the end of 4<sup>th</sup> semester before final examination. An external examiner shall assess the dissertation for 80 marks while the guide shall assess the performance of the candidate for 20 marks (internal assessment). The dissertation will be rated for a total of 100 marks (80 +20). Candidates who fail to submit their dissertation on or before the stipulated date shall not be permitted to appear for the final semester examination.

## 10. CRITERIA FOR PASSING:

- 10.1 The student is required to obtain a minimum of 50% in each of the theory papers, internal assessment, practical and clinical exams, and dissertation for a pass.
- 10.2 Grace Marks shall be allocated as per university norms.
- 10.3 Students will have to pass the clinical examination of the given semester to proceed to the next semester.
- 10.4 Carry-over of papers: Maximum number of attempts for any paper / clinical practicum / dissertation shall be three inclusive of first attempt. There shall be no supplementary examination.

## 11. BOARD OF EXAMINERS:

- 11.1 There shall be a Board of Examiners for scrutinizing and approving the question papers as well as scheme of valuation.



11.2 Fifty percent of the members in the Board of Examiners shall be from outside the institution.

**12. AWARD OF DEGREE:**

The University shall award the degree and issue certificate only after the candidates successfully complete all the examinations stipulated.

**13. INFRASTRUCTURE FOR STARTING THE COURSE:**

As per the guideline of Rehabilitation Council of India  
**Annexure I**

**14. OTHERS:**

On all other issues not mentioned in these rules and regulations like the pattern of question paper, grading, award of grace marks, and declaration of rank, among others, the rules and regulations of the respective University shall prevail.

**15. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 72**  
**Establishment under M.P. Act No. 17 of 2007**  
**MASTER OF SCIENCE IN SPEECH-LANGUAGE PATHOLOGY**  
**(Semester scheme)**

**1. NAME OF THE COURSE OFFERED:**

The nomenclature of the program shall be Master of Science (Speech-Language Pathology). M.Sc. (SLP) shall be the short form.

**2. OBJECTIVES OF THE M.SC. (SLP) PROGRAM:**

The objectives of the M.Sc. (SLP) program are to equip the students with knowledge and skills to

- 2.1 Function as teachers and researchers in institutions of higher learning,
- 2.2 Diagnose and manage disorders of speech, language, and swallowing across life span,
- 2.3 Counsel and guide persons with disorders of speech, language and swallowing as well as their family members,
- 2.4 Implement rehabilitation programs for persons with speech, language and swallowing disorders,
- 2.5 To function as the disability certification authority in the field,
- 2.6 Liaise with professionals in allied fields and other stake holders,
- 2.7 Implement prevention and public education programs,
- 2.8 Undertake advocacy measures on behalf of and for persons with speech, language and swallowing disorders,
- 2.9 Advise government and other institutions on legal and policy issues related to persons with communication disorders, and
- 2.10 To establish and administer institutions of higher learning.

**3. DURATION OF THE PROGRAM:**

- 3.1 The program shall be of 4 semesters (2 academic years) and should be completed within 4 years from the date of admission or as per University Policy.
- 3.2 An academic year consists of two semesters, and each semester shall extend over a minimum period of sixteen weeks excluding examination days. The semesters shall be spread out as follows:
 

Odd semesters – 1 & 3	July – November
Even semesters – 2 & 4	January – May
- 3.3 There shall be examination at the end of each semester. There shall be a vacation of minimum 2 weeks after the examinations at the end of odd semesters and 4 weeks after the examinations at the end of even semesters.

**4. MEDIUM OF INSTRUCTION:**

Medium of instruction shall be English.

**5. ELIGIBILITY FOR ADMISSION:**

- 5.1 Candidates with BASLP/B.Sc.(Speech & Hearing) degree of any recognized university by the Rehabilitation Council of India are eligible for admission to the course.<sup>1</sup>

- 5.2 Relaxation in the qualifying marks for designated categories of students shall be as per rules and regulations of respective University / State / Union Territory or the Central Government.
- 5.3 Applicants shall not be older than 30 years on the 1<sup>st</sup> July of the year of admission.

#### 6. **PROGRAM STRUCTURE:**

Time structure of the program shall be as follows:

Semesters	4	
Weeks per Semester	16	
Days per week	6	94 days per semester
Hours per day	6	560 hours per semester

Semester 1	Theory	5 papers x 60 hours	300 hours
	Clinical		240 hours
	Others		20 hours
Semester 2	Theory	4 papers x 60 hours	240 hours
	Clinicals		240 hours
	Others		80 hours
Semester 3	Theory	5 papers x 60 hours	300 hours
	Clinicals		160 hours
	Dissertation		80 hours
	Others		20 hours
Semester 4	Theory	1 paper x 60 hours	60 hours
	Clinicals		160 hours
	Dissertation		320 hours
	Others		20 hours
Theory	300 + 240 + 300 + 60		900 hours
Clinicals	240 + 240 + 160 + 160		800 hours

Dissertation	0+0+80+320		400 hours
Others	20+80+20+20		140 hours
Total			2240rs

## 7. **ATTENDANCE:**

- 7.1 Minimum attendance shall not be less than 80% in theory and 90% in Clinicals in each semester for students to be eligible to appear for examination at the end of each semester or as per University Policy.
- 7.2 Candidates who cannot appear for examination for want of attendance will be declared failed and will have to repeat the particular semester to be eligible to appear for exams subsequently.
- 7.3 Condonation of shortage of attendance in genuine cases to a maximum of 10% shall be from the Vice-Chancellor, through proper channel (Forwarded through Course-coordinator/Principal/Incharge of respective college/Department).

## 8. **EXAMINATION PATTERN:**

8.1 The examination pattern and papers shall be as shown in the table below:

	Subject	Marks		
		Exam	IA	Total
SLP101	Research Methods, Epidemiology and Statistics	80	20	100
SLP102	Speech Science and Speech Production	80	20	100
SLP103	Augmentative and Alternative Communication	80	20	100
SLP104	Neurobiology of Speech-language and Cognition	80	20	100
SLP105	Clinical Linguistics & Multilingual Issues	80	20	100
SLP106	Clinicals (Internal)	80	20	100
SLP201	Advances in Speech Sound Disorders	80	20	100
SLP202	Voice : Science and Disorders	80	20	100
SLP203	Disorders of Fluency	80	20	100
SLP204	Language Disorders in Children	80	20	100
SLP205	Clinicals (External)	100	00	100
SLP301	Neurogenic Speech Disorders	80	20	100
SLP302	Dysphagia	80	20	100
SLP303	Aphasia	80	20	100
SLP304	Language and Literacy Disorders	80	20	100
SLP305	Cognitive Communication Disorders	80	20	100
SLP306	Clinicals (Internal)	80	20	100
SLP401	Practices in Speech-language Pathology	80	20	100
SLP402	Dissertation	80	20	100
SLP403	Clinicals (External)	100	00	100
		1640	360	2000

- 8.2 Clinical examinations (for SLP106 and SLP306) shall be conducted by the designated internal faculty of the department at the end of 1<sup>st</sup> and 3<sup>rd</sup> semester. IA marks shall be awarded by all the faculty of the department on the basis of the assessment of the candidates' work throughout the particular semester.
- 8.3 Clinical examinations for SLP 205 and SLP 403 will be conducted by external examiner(s) at the end of the 2<sup>nd</sup> and 4<sup>th</sup> semester, respectively. Clinical examination shall be with clinical population like in medical profession. The examiners shall also evaluate records of clinical and practical work of the students.
- 8.4 An internal faculty member can assist the external examiner(s) in SLP 205 and SLP 403 Clinicals (External), but shall not award marks.

**9. DISSERTATION:**

Students shall complete a dissertation in the 3rd and 4th semester of the course and shall submit the same at the end of 4th semester before final examination. An external examiner shall assess the dissertation for 80 marks while the guide shall assess the performance of the candidate for 20 marks (internal assessment). The dissertation will be rated for a total of 100 marks (80 +20). Candidates who fail to submit their dissertation on or before the stipulated date shall not be permitted to appear for the final semester examination.

**10. CRITERIA FOR PASSING:**

- 10.1 The student is required to obtain a minimum of 50% in each of the theory papers, internal assessment, and clinical exams, and dissertation for a pass.
- 10.2 Grace Marks shall be allocated as per university norms.
- 10.3 Students will have to pass the clinical examination of the given semester to proceed to the next semester.
- 10.4 Carry-over of papers: Maximum number of attempts for any paper / clinical practicum / dissertation shall be three inclusive of first attempt. There shall be no supplementary examination.

**11. BOARD OF EXAMINERS:**

- 11.1 There shall be a Board of Examiners for scrutinizing and approving the question papers as well as scheme of valuation.
- 11.2 Fifty percent of the members in the Board of Examiners shall be from outside the institution.

**12. AWARD OF DEGREE:**

The University shall award the degree and issue certificate only after the candidates successfully complete all the examinations stipulated.

**13. INFRASTRUCTURE FOR STARTING THE COURSE:**

As per the guideline of Rehabilitation Council of India  
Annexure I

**14. OTHERS:**

On all other issues not mentioned in these rules and regulations like the pattern of question paper, grading, award of grace marks, and declaration of rank, among others, the rules and regulations of the respective University shall prevail.

**15. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 73**  
**Established under M.P. Act No. 17 of 2007**  
**POST GRADUATE DIPLOMA COURSE IN AUDITORY VERBAL**  
**THERAPY**  
**(PGDAVT)**  
**Regulations & Norms**

**1. PREAMBLE:**

The ratification of the UN Convention on the Rights of Persons with Disabilities (Article 24) in 2007 by the Indian government and the passing of the 'The Right to Education Act (2009)' subsequently has brought a new direction to the field of management of deaf and hard of hearing individuals in the country. Professionals offering services to the deaf and hard of hearing must acquire the skills to adopt and use modern technology for the benefit of persons with hearing impairment. Rehabilitation Council of India (RCI) is India's apex body entrusted with the responsibility to regulate and monitor training of professionals in the area of disability. The Council has been designing, from time to time, training programs for the man power generation in different areas of disability. The RCI is in the process of implementation of the forward thinking concept of a barrier free environment for persons with disabilities as enunciated in the United Nations Convention on the Rights of Persons with Disabilities (UNCRPD) 2006.

The significant change that the UNCRPD (2006) has brought about is that issues regarding persons with disabilities will no longer be a medical or health care issue. On the other hand, they will be viewed as a human rights issue. However, majority of the training programs tend to focus more on disability than on the needs of differently abled children. The RCI has been designing training programs to accommodate this changed shift. One such program is the institution of a Post Graduate Diploma Course in Auditory Verbal Therapy for the training professionals in the fields of Speech & Hearing and Special Education. By its very definition, Auditory Verbal Therapy, highlights the similarities between hearing children and their deaf and hard of hearing peers and therefore uses normal patterns of development on which to base the habilitation of deaf and hard of hearing children. Inclusion / inclusive education lie at the very heart of Auditory Verbal Therapy and therefore, the new program is justified.

RCI plays a key role in linking tradition to modernity and its training courses for professionals are the bridges that enable the link. Post Graduate Diploma Course in Auditory Verbal Therapy will allow the professionals serving the deaf and hard of hearing in India to build on their knowledge and skills from their masters, graduation and diploma programs and to upgrade their knowledge.

Systematic and intensive training of the existing re/habilitation professionals is critical if India is to keep pace with international trends in the habilitation of deaf and hard of hearing children. International protocol recommends that training in Auditory Verbal therapy be given only by professionals who are themselves certified as LSLS Cert. AVT by the A.G. Bell Academy, an international organization. Therefore, this Post Graduate Diploma in Auditory Verbal Therapy should preferably follow the same modules of theory, guided observation and practice of Auditory Verbal Therapy as taught in the training of LSLS Cert. AVT.

Across the world, all countries are working towards implementing the position statement of the Joint Committee on Infant Hearing, 2007. This 1-3-6 protocol specifies that with the help of universal newborn infant screening babies with hearing loss be

identified by one month of age and be appropriately provided amplification facility by three months of age so that effective intervention begins at six months of age at the latest. By instituting this Post Graduate Diploma in Auditory Verbal Therapy, India will demonstrate through her apex regulatory body of RCI that she recognizes the need for focused training of re/habilitation professionals who serve deaf and hard of hearing babies in listening, learning and spoken language skills in order to comply with the 1-3-6 protocol and so become members of the global community.

**2. AIMS AND OBJECTIVES:**

The aim of the Post Graduate Diploma Course in Auditory Verbal Therapy is to train and equip professionals in the fields of Speech & Hearing and Special Education with knowledge and skills to practice auditory verbal therapy with young children with deafness and hard of hearing as a part of the early intervention program. The course further aims to facilitate professionals in setting up of early intervention centers staffed by therapists who have the requisite skills to work with deaf and hard of hearing children.

The objectives of this program are to

- 2.1 Impart knowledge in modern technology and its significance in the practice of educating children with hearing impairment,
- 2.2 Identify the principles and practices of auditory verbal therapy and related services,
- 2.3 Develop skills and competencies for practicing auditory verbal therapy as a part of the early intervention services for young children with hearing impairment,
- 2.4 Promote speech-language development and education of young hearing impaired children, and
- 2.5 Promote parent - teacher empowerment,
- 2.6 Develop skills and competencies in students for practicing AVT as a part of early intervention for young hearing impaired children, and
- 2.7 To teach the need and significance of practice of AVT in India.

**3. DURATION OF THE COURSE:**

The duration of the course is one academic year (2 semesters).

**4. MEDIUM OF INSTRUCTION:**

The medium of instruction shall be English.

**5. ELIGIBILITY FOR ADMISSION:**

Any candidate with a graduate degree in Audiology /Speech-Language Pathology/ Speech and Hearing, or Special Education (HI), or equivalent degree from any other University and who is registered with the Rehabilitation Council of India will be eligible to seek admission for the course. Foreign nationals should produce evidence of professional registration in their home country.

**6. TEACHER – STUDENT RATIO:**

The teacher student ratio is 1: 5

**7. INTAKE CAPACITY:**

Considering infrastructural facilities needed and the dearth of certified AV therapists in India, a maximum of 10 candidates may be admitted for the course.

**8. TYPE OF INSTITUTIONS THAT CAN OFFER THE PROGRAM:**

Only those institutions that fulfill the following criteria are eligible to conduct the program:

- 8.1. Institutions offering RCI approved graduate programs in Speech & Hearing or Special Education in the area of hearing impairment or institutions with RCI affiliation for more than 4 years.
- 8.2. Institutions having surgical facility for cochlear implantation and post implant habilitation facility, or having MOU with institutions having surgical and post implant habilitation facility.

**9. THEORY AND PRACTICAL WORK:****Semester 1\***

Semester	Title	Theory** Hours	Practical Hours	Clinical Hours
1.	Auditory Verbal Techniques	50	40	--
	Spoken Language and Communication Development	50	40	--
	Child Development	50	40	--
	Clinical work	----	---	290
<b>Total</b>		150	120	290
2.	Hearing and Amplification Technologies	50	40	----
	Parent Empowerment and Curricular Support	50	40	----
	Clinical work			380
<b>Total</b>		100	80	380

- \* Calculated on the basis that each semester will have 16 weeks with 5 working days, and each working day will have 7 hours. It means each semester will be of 560 hours (16 weeks x 5 days x 7 hours). This is in addition to examinations, preparatory holidays for exam, vacation etc.

- \* There shall be 5 units in each paper and each unit shall be taught for 10 hours.

**Minimum Practical work: 1 and 2 semesters (Clinical examination)**

S.No.	Activity	Sessions / Children	Hours
1	Unsupervised observations	50	50
2	Supervised observation of teaching sessions with Teacher Practicum Supervision Form	20	20
3	Practice sessions with Teacher Behavior Rating Scale (TBRS)	20	30
4	Assessed sessions (TBRS)	10	20



5	Practice of Phonetic Level Evaluation and Speech Strategies of Dr. Ling	30	10
6	Observation and practice –Audiograms 15 observations and 5 practice sessions	15	20
7	Practice – Hearing evaluation	5	10
8	Observation of Hearing aids fitment	10	20
9	Observations of Mapping sessions	10	20
10	Observation of Speech Perception Tests	5	10
11	Case studies including case history	5	10
12	Clinical work with Children with Hearing impairment		450*

\* Auditory verbal therapy + Speech therapy

#### 10. SCHEME OF EXAMINATION:

The scheme of examination shall be as follows:

Paper	Title	Theory	IA	Practical	Total
1.1	Auditory Verbal Techniques	50	20	30	100
1.2	Spoken Language and Communication Development	50	20	30	100
1.3	Child Development	50	20	30	100
1.4	Clinical*	80	20	--	100
2.1	Hearing and Amplification Technologies	50	20	30	100
2.2	Parent Empowerment and Curricular Support	50	20	30	100
2.3	Clinical*	80	20	--	100
	<b>Total</b>	<b>410</b>	<b>140</b>	<b>150</b>	<b>700</b>

**11. STANDARD OF PASSING:**

The minimum percentage of marks required for passing is 50%, separately in theory, IA, practical and clinical examination. Class will be declared based on the aggregate of marks of both the semesters. The candidates will be declared to have passed the examination as follows:

First Class with Distinction	≥ 75%
First Class	≥ 60%
Second Class	≥ 50%

**12. REAPPEARING FACILITY:**

A candidate has to pass each examination in not more three attempts including the first attempt. The candidate to appear for the examination at the end of second semester must have passed all the papers of the first semester. The entire course itself should be completed in not more than 2 years.

**13. INFRASTRUCTURE FACILITIES:**

The institution conducting the training course should have a Model Centre practicing auditory verbal therapy or should have a Memorandum of Understanding Auditory Verbal therapy center near to the institution. The teacher student ratio (therapist – cochlear implanted children) of the model center should be 1:4 and the center should have a minimum strength of 10 young hearing impaired children with cochlear implants.

The minimum infrastructure required for offering this Post graduate Diploma program for an intake of 10 students, shall be as given below. The requirements for infrastructure shall double for an additional intake of 10 students or part thereof.

**13.1 Space: Exclusively for this program**

Class room	1 room	15' x 10'	150 Sq. ft
Laboratory	1 room	20' x 10'	200 Sq. ft
Therapy rooms	5 rooms	8' x 8' each	320 Sq. ft
Space for staff, library, waiting hall,			
child care, office & other facilities			~ 500 Sq. ft

**13.2 Staff**

Audiologist / Speech Language Pathologist*	1	Full time
Lecturer in Special Education@	1	Full time
Lecturer in Auditory Verbal Therapy <sup>s</sup>	1	Part time/Full time
Lecturer in Clinical Psychology/Clinical Psychologist#	1	Visiting

MASLP or MSc (Audiology) or M.Sc. (Speech-language Pathology), or its equivalent as recognize by RCI.

Master's Degree in Special Education (HI) or its equivalent as recognized by RCI

- a) MASLP or MSc (Audiology), or MSc (Speech-language Pathology), or Master's Degree in Special Education (HI), or M.Ed. (Special Education) with LSLS Cert. in AVT, or its equivalent as recognized by RCI.
- b) Must have worked with 50 children with cochlear implants in the last 5 years.

M.Phil in Clinical Psychology or its equivalent as recognized by RCI

### 13.3 Equipment/ Material

- 13.3.1 Digital Hearing Aids - Minimum 6 nos.
- 13.3.2 Therapy material like toys & play materials, toys for informal hearing screening such as bells and noise making toys
- 13.3.3 Material for auditory verbal raining
- 13.3.4 Models of Ear and cochlear implant

### 13.4 Clinical infrastructure

Teacher: Children with cochlear implants 1 : 5

Teacher: Children with hearing aids 1 : 5

### 13.5 Library

Books and Journals listed under each paper are essential.

## 14. CERTIFICATION AS A REGISTERED PROFESSIONAL:

It is mandatory as per Section 13 of RCI Act for every teacher of special education to obtain a "Registered Professional Certificate" from the Rehabilitation Council of India to work in the field of special education in India. As continuous professional growth is necessary for the renewal of the certificate, the teachers as well as educators in special education should undergo in-service program periodically to update their professional knowledge. Amendments, if any, to the regulations of the course will be made periodically by the Rehabilitation Council of India. Any deviation from the above regulations should have the prior approval of the Rehabilitation Council of India.

The candidates with Post Graduate Diploma in Auditory Verbal Therapy (PGDAVT) will be eligible for addition of qualification for registration in CRR as Auditory Verbal Therapist (AVT) in addition to their existing categories of registration under any other category (S. No.17).

## 15. OTHERS:

On all other issues not mentioned in these rules and regulations like the pattern of question paper, grading, award of grace marks, and declaration of rank, among others, the rules and regulations of the respective University shall prevail.

## 16. GENERAL:

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 74**  
**Establishment under M.P. Act No. 17 of 2007**  
**BACHELOR IN OCCUPATIONAL THERAPY (B.O.T.)**

**1. CORE CONCEPTS IN OCCUPATIONAL THERAPY:**

The theme of the profession is based on the concept of 'OCCUPATIONAL SCIENCES', fitness of the human in his environment to be productive and purposeful. Occupational Therapy means a branch of health care system which involves application of purposeful goal oriented activity through latest technology with computerized system and the like, in the evaluation, diagnosis or treatment of a person whose function is impaired due to acute and chronic physical illness or injury, psychological dysfunction functioning, to prevent disability and to maintain health; specific occupational therapy services which include education and training in activities of daily living (ADL); the design, fabrication and application of orthosis (Splints); guidance in the selection & use of adaptive equipment, therapeutic activities to enhance functional performance; prevocational evaluation & training & consultation concerning the adaptation of physical environment which may be provided to individuals or groups & to both indoor & outdoor patients.

Thus the practice of Occupational therapy is guided by objective assessments, a conclusive diagnosis of functional limitations and intervention of function, to alleviate, control and treat dysfunction due to illness, accident, injury and developmental problems. The goal of therapy being, functional independence for productive living.

**1.1 Scope of practice:**

The role of an Occupational Therapist now, is concomitant with the rapidly changing and dynamic nature of contemporary health and human services delivery systems. It requires the occupational therapist to possess basic skills as a direct care provider, consultant, educator, manager, researcher, and advocate for the profession and the consumer.

**2. AIMS AND OBJECTIVES:**

**2.1 AIMS:**

- 2.1.1 To promote sustainable development of higher education consistent with statutory and regulatory requirements.
- 2.1.2 To plan and continuously provide necessary infrastructure, learning resources required for quality education and innovations.
- 2.1.3 To stimulate to extend the frontiers of knowledge, through faculty development and continuing education programs
- 2.1.4 To make research a significant activity involving staff, students and society.
- 2.1.5 To promote industry/organization, interaction/collaborations with regional / national / international bodies.
- 2.1.6 To establish healthy systems for communication among all stakeholders for vision oriented growth.
- 2.1.7 To fulfill the national obligation through rural health missions.
- 2.1.8 Proficiency in the diagnosis and skills of basic Occupational therapy procedures and techniques with adequate theoretical basis and rationale

of medical/Occupational therapy & allied health sciences.

- 2.1.9 To detect and evaluate the anatomical, patho-physiological impairments, resulting in dysfunction of various age groups & occupation; as well as epidemiological features in the population & arrive at appropriate diagnosis.
- 2.1.10 To understand the rationale & basic investigative approach to the medical system and surgical intervention regimens & accordingly plan & implement specific therapeutic measures effectively.
- 2.1.11 To practice Professional Autonomy & Ethical principles with referral as well as first contact clients in conformity with ethical code for Occupational therapists.
- 2.1.12 To practice Moral and Ethical values and Evidence Based Practices with regard to Occupational therapy.

## 2.2 **OBJECTIVES:**

The objective of the course shall allow the students:

- 2.2.1 To implement effectively the programs through creativity and innovation in teaching, learning and evaluation.
- 2.2.2 To make existing programs more career oriented through effective system of review and redesign of curriculum.
- 2.2.3 To impart spirit of enquiry and scientific temperament among students through research oriented activities.
- 2.2.4 To enhance reading and learning capabilities among faculty and students and inculcate sense of lifelong learning.
- 2.2.5 To promulgate process for effective, continuous, objective oriented student performance evaluation.
- 2.2.6 To ordinate periodic performance evaluation of the faculty.
- 2.2.7 To incorporate themes to build values, civic responsibilities & sense of national integrity.
- 2.2.8 To ensure that the academic, career & personal counselling are in-built into the system of curriculum delivery.
- 2.2.9 To strengthen, develop and implement staff and student welfare programs.
- 2.2.10 To adopt and implement principles of participation, transparency and accountability in governance of academic and administrative activities.
- 2.2.11 To constantly display sensitivity and respond to changing educational, social, and community demands.
- 2.2.12 To promote public- private partnership
- 2.2.13 To acquire adequate theoretical & practical knowledge in the basic medical subjects.
- 2.2.14 To enable the student to acquire skills in the evaluation & diagnosis of the physical problems presented by the patients.
- 2.2.15 To build up a learning process that shall include living experience, problem oriented approach, case studies & community health care activities.
- 2.2.16 To impart competency in therapeutic measure of specific choice towards Preventive, Curative, Symptomatic & Restorative or Rehabilitative & Promotive goals in a variety of health care settings.
- 2.2.17 To develop professional autonomy through independent physical diagnosis and prescription as an Occupational therapist for all

- Occupational therapy related referrals and/ or primary clients.
- 2.2.18 To endorse therapeutic moral and ethical codes as per international standards and to emphasis on the conduct of professional practice for patient's welfare as the primary responsibility.
  - 2.2.19 To develop confidence in clinical, teaching and administrative assignments and continue to seek further knowledge in the fields of Occupational therapy.
  - 2.2.20 To introduce the students to the fundamentals of Biostatistics & Occupational therapy Research activities

### 3. **PRE-AMBLE-**

“OCCUPATIONAL THERAPY” offers much more than the connotation attached and perceived to its title as providing Occupation to the client. Occupational Therapy is a specialized branch of medical health sciences that prevents, rehabilitates or treats any physical, mental illness. In the key role, a qualified professional is competent to optimize the functional capability of his/her clients when jeopardized due to physical, mental, psychosocial impairment or dysfunction.

A graduate from an accredited program in Occupational Therapy must:

- 3.1 Have acquired, as a foundation for professional study prescribed in the syllabus and understanding of issues related to diversity.
- 3.2 Be educated with a broad exposure to the delivery models and systems used in settings where occupational therapy is currently practiced.
- 3.3 Have achieved basic competence through a combination of academic and fieldwork education
- 3.4 Be able to articulate and apply occupational therapy theory and evidence-based evaluations and interventions to achieve expected outcomes as related to real life and needs of clients.
- 3.5 Be prepared to be a lifelong learner and keep current with evidence-based professional practice.
- 3.6 Uphold the ethical standards, values, and attitudes of the occupational therapy profession.
- 3.7 Understand the distinct roles and responsibilities of the occupational therapist as a clinician, researcher and service provider.
- 3.8 Be aware of the occupational therapy services offered to the recipients of those services.
- 3.9 Contribute to the growth and dissemination of research and knowledge.

### 4. **HEALTH PREREQUISITES TO PURSUE THE COURSE:**

The ‘OSLERIAN APPROACH’ is a model which is the basis of imparting education to students in the health field and involves the following steps

STEP I- Define and align

STEP II- Listen and localize

STEP III- Palpate and re-create

STEP IV- Investigate and alleviate

Based on the above model, for effective learning, deductions from clinical and didactic experiences, execution of skills, it is mandatory that a student in the field of Occupational Therapy [Allied Health Sciences] should meet the following health pre requisites –

Cognitive and perceptual abilities - Understand, perceive and execute problem solving in all clinical situations using a combination of cognitive and perceptual components.

Visual abilities- Will satisfy normal standards of vision to identify, localize, and demonstrate cognizance of safety measures by visual inspection for appropriate intervention.

Auditory abilities- Will carry out effective and meaningful conversation with the client, care givers and co- professionals; will effectively auscultate and demonstrate ability to hear normal and abnormal sounds from a distance as well with or without aids to deliver appropriate care.

Speech: Will demonstrate ability to clearly articulate and share knowledge, professional values, patient concerns, with peers and other disciplines, to facilitate patient care.

Motor abilities- Will demonstrate adequate loco motor skills towards patient treatment, safety, care and intervention in varied set ups.

Demonstrate gross and fine motor abilities to allow use of devices, gadgets, palpate, localize, and manipulate with precision and safety.

Sensory abilities- Will execute all essential sensory intactness to feel, palpate, test and report deficits and apply appropriate intervention.

Co-ordination – Will demonstrate uncompromised fine motor and visual-motor co-ordination and balance abilities to assess and intervene in a variety of therapy settings, with respect to patient and self-safety.

Emotional integrity: Will demonstrate a stable emotional status to interact during therapeutic interactions with clients, peers and professional colleagues, and all involved in patient care

#### 5. **DURATION OF THE COURSE:**

Duration of the course leading to Degree of Bachelor of Occupational therapy (BOT) shall be regular full time four and half calendar years (Including Six Months compulsory rotatory internship).

#### 6. **STRUCTURE OF BOT CURRICULUM:**

6.1 Bachelor of Occupational therapy course shall be taught within four Years with following distribution.

- First Year B.O.T.
- Second Year B.O.T.
- Third Year B.O.T.
- Fourth Year B.O.T.

6.2 The Practical work also includes the clinical work wherever applicable.

6.3 Compulsory Rotatory Internship shall be not less than 6 months.

6.4 The Student admitted in BOT course shall have to complete the course within the maximum permissible duration of 8 years, from the date of admission or as per University Policy.

6.5 The examination shall be held twice a year, one regular (Main exam) to be held as per University Schedule and supplementary (Second exam) to be held as per University Scheme or as may be fixed by controller of Examination/apex body.

#### 7. **ACADEMIC QUALIFICATION & SELECTION CRITERIA FOR ADMISSION:**

7.1 Admission to the First year in Bachelor of Occupational therapy degree course shall be 10+2 system of education in science group or equivalent examination with Chemistry, Physics & Biology, as main subjects conducted by a recognized Board/Council/ University with minimum of 50% marks. However for SC/ST/OBC candidate the percentage will be relaxed as per Government norms.

- 7.2 Selection of candidate will be on basis of the entrance examination or in the absence of entrance examination purely on merit on the basis of marks obtained in qualifying examination.
- 7.3 The minimum age for admission shall be 17 years on 31<sup>st</sup> December of academic year of admission.
- 7.4 On admission, every candidate shall have to get fitness certificate from MU Hospital.
- 7.5 The course shall be commencing from the month of August of every academic year.

## **8. REGULATIONS RELATING TO THE ASSESSMENT OF ACADEMIC GROWTH OF THE STUDENT:**

The assessment of academic growth of the student shall be done on the basis of Three Sessional Examination (December/March/June conducted during the year) and one University Examination (conducted at the end of the academic year)

The medium of Instruction and Examination shall be English throughout the course of the study.

### **8.1 Attendance**

8.1.1 Candidates appearing as regular student for any annual examination are required to attend 75% of the total lectures delivered and 85% of the practical classes held separately in each subject of the course of the study or as per University policy.

8.1.2 The total lecture and practical shall be conducted as per scheme.

### **8.2 Sessional Examinations**

Three Sessional Examination shall be conducted for each subject, separately for theory and practical.

## **9. REQUIREMENTS FOR EXAMINATION AND ATTENDANCE:**

9.1 Examination will be conducted by the university:

- 1<sup>st</sup> Year at the end of the 1<sup>st</sup> year.
- 2<sup>nd</sup> Year at the end of the 2<sup>nd</sup> year.
- 3<sup>rd</sup> Year at the end of the 3<sup>rd</sup> year.
- B.O.T. Final Examination at the end of the 4<sup>th</sup> year.

Examination shall be in Theory and Practical. A candidate will be permitted to appear for the University Examination in the subject only if:

- He has not less than 75% of attendance in Theory and 85% Practical in each subject or as per University policy.
- He obtains a Progress Certificate from Head of the institution of having satisfactory completed the course of study prescribed in the subject as required by the regulations and his conduct has been satisfactory.

9.2 Students may carry over two subjects from one year to the following year and must pass in the failed subjects before appearing in the next year exam.

9.3 Students may carry two subjects from 2<sup>nd</sup> year to 3<sup>rd</sup> year and must pass in failed subject before appearing in 3<sup>rd</sup> year annual exam.

9.4 Students may carry two subjects from 3<sup>rd</sup> year to 4<sup>th</sup> year and must pass in failed subjects before appearing in the 4<sup>th</sup> year exam.

9.5 There will be two examinations in a year with an interval of four to six months between the two examinations.



## 10. SCHEME OF EXAMINATION:

The examinations are to be conducted to assess whether the candidate has acquired the necessary minimum skill and clear concepts of the fundamentals essential for day to day professional work.

10.1 The Examination will be held twice a year for all the four years respectively.

10.2 The students desirous for appearing for the University Examination shall submit the application form duly filled in along with prescribed examination fees. Incomplete application form submitted without prescribed fee or application form submitted after due date will be rejected; and student shall not be allowed to appear for the examination.

10.3 A student who possesses the qualifications laid down in and satisfies the following requirements duly certified by the Principal of the Occupational therapy College/Institution recognized by this University for the B.O.T course shall be eligible to appear in second/Third/Final year B.O.T. examination.

10.3.1 of having good character;

10.3.2 of having attended the prescribed course;

10.3.3 of having attended not less than:

10.3.3.1 75% of all course of lectures delivered; and

10.3.3.2 85% of full course of practicals held separately.

10.3.3.3 Or as per University Policy.

10.4 **Internal assessment:**

10.4.1 It shall be based on day to day assessment evaluation of student assignment, preparation for seminar, clinical case presentation etc.

10.4.2 Regular periodical examinations shall be conducted throughout the course. The question of number of examinations is left to the institution.

10.4.3 Day to day records should be given importance during internal assessment.

10.4.4 Weightage for the internal assessment shall be 20% of the total marks in each subject.

Note: Internal assessment shall relate to different ways in which students' participation in learning process during semesters is evaluated, some examples are as follows.

- Preparation of subject for students' seminar.
- Preparation of a clinical case for discussion.
- Clinical case study/problem solving exercise.
- Participation in project for health care in the community (Planning stage to evaluation).
- Proficiency in carrying out a practical or a skill in small research project.
- Multiple choice questions (MCQs)/(VSQs) test after completion of a system/teaching.

Each item tested shall be objectively assessed and recorded. Some of the items can be assigned as Home work/Vacation work.

10.5 **Criteria for Passing:**

10.5.1 In all the University examinations, the candidate shall have to obtain 50% marks separately in Theory plus viva voce plus internal Assessment and Practical plus Internal Assessment examination separately.

10.5.2 The candidate must secure minimum 50% marks in each head of passing. There shall be three head of passing i.e. Theory, Practical & Internal Assessment. However candidate securing 35% marks in internal Assessment will have to compensate 15% marks in University examination – Theory/Practical to pass the Subject.

10.5.3 The grace marks shall be allowed according to the general ordinance

relating to "Award of Grace Marks"

- 10.6 Each Theory paper will be of three hours.
- 10.7 There will be three sections in each theory paper  
       = Section A – MCQs/VSQs (02x10=20)  
       = Section B – SAQs (05x07=35)  
       = Section C – LAQs (15x03= 45)
- 10.8 Not more than 40 candidates should be examined in one day in Clinical or Practical examination / subject.
- 10.9 The medium of examination shall be English.
- 10.10 If candidate fails either in Theory or in Practical Examination of a subject he/she will have to appear for both theory and practical/clinical examination again.
- 10.11 Internal Assessment marks list shall be submitted to the University office at least two weeks before the commencement of theory examinations. The institute shall adopt uniform criteria for Internal Assessment for which a record, i.e., attendance and evaluated answer sheets of internal exam of such student shall be maintained in the institution, which will be shown to the student and such records shall be maintained for 3 months after the declaration of university results.
- 10.12 The candidate is required to obtain Pass Marks in each of the Theory and Practical. Candidate has to pass all subjects separately in main exam / internal exam. The internal assessment award of any candidate who fails in one or more papers of any semester examination shall be carried forward to the next examination. He/she will, however, have the option to improve his/her marks of sessional examinations at the time of appearing in the Betterment test.
- 10.13 A candidate who has completed the prescribed course and is unable to appear in the examination or having appeared has failed, may be admitted to subsequent examinations, on payment of the prescribed fee on each occasion and on presenting a certificate signed by the Principal of Occupational therapy college/ Institution in which he/she completed the course, that he/she subsequent to his/her last failure attended a course of training/hospital practice, in the subjects of the examination as the Principal may determine.
- 10.14 The examination shall be held according to the scheme of examination and syllabus prescribed by the Academic Council. A candidate who fails in an examination or having been eligible fails to appear in an examination shall take the examination according to syllabus prescribed by the University for regular students provided that the syllabus for the candidates of supplementary examination shall be the same as was in force in the last main examination
- 10.15 Syllabus & Scheme of the examination shall be decided by the Academic council of the University from time to time as per guidelines from MP Paramedical Council.

### **Bachelor of Occupational Therapy PART - I**

The Part-I Examination shall consist of the following subjects (Teaching hour approximately for lectures to be delivered and practical classes to be held in each subject indicated against each subject).

No	SUBJECT	LECTURES	PRACTICAL
1.	Human Anatomy	140	60
2.	Human Physiology including Bio chemistry	160	60

3.	Pathology & Pharmacology	100	-
4.	Psychology	80	-
5.	Principles of Occupational Therapy	160	140
6.	Occupational Therapy Clinicals	-	500

### BOT 1st Year Scheme of Examination

The full marks for each subject and the minimum marks required for passing the same shall be as follows:

S.No.	Subject	Internal Assessment		University Examination			Total
		Theory	Practical	Theory	Viva	Practical	
1	Human Anatomy	20	20	100	20	40	200
2	Human Physiology including Biochemistry	20	20	100	20	40	200
3	Pathology & Pharmacology	20	-	80	-	-	100
4	Psychology	20	-	80	-	-	100
5	Principles of Occupational Therapy	20	20	100	20	40	200
Total Max. Marks							800

# In paper Human Physiology including # Bio-Chemistry: The University practical examination will be only for Human Physiology, there will be no practical examination in Biochemistry.

N.B. – Viva marks will be added in theory marks along with internal assessment theory; candidate have to get min. 50% marks in theory and viva collectively for passing the examination.

### Bachelor of Occupational Therapy PART – II

The part-II Examination shall consist of the following subjects (Teaching hour approximately for lectures to be delivered and practical classes to be held in each subject indicated against each subject.

No	SUBJECT	LECTURES	PRACTICAL
1.	Medicine including Neurology	100	50
2.	Surgery including Orthopaedics	100	50
3.	Biomechanics & Kinesiology	100	30
4.	Occupational Therapy in Medical Condition Part-I	100	120
5.	Occupational Therapy in Surgical	100	120

	Condition Part-I		
6.	Applied Psychology including psychiatry	100	50
7.	Occupational Therapy Clinical	-	800

### Scheme of Examination for BOT 2nd year

The full-marks for each subject and the minimum marks required for passing shall be as follows.

S.No.	Subject	Internal Assessment		University Examination			Total
		Theory	Practical	Theory	Viva	Practical	
1	Medicine including Neurology	20	--	80	--	--	100
2	Surgery including Orthopedics	20	20	100	20	40	200
3	Biomechanics & Kinesiology	20	-	80	--	--	100
4	Occupational Therapy in Medical Condition Part-1	20	20	100	20	40	200
5	Occupational Therapy in Surgical Condition Part-1	20	20	100	20	40	200
6	Applied Psychology including Psychiatry	20	-	80	-	-	100
Total Max. Marks							900

\*In Surgery including Orthopaedics:- University practical exam for Orthopaedics subject only

N.B. – Viva marks will be added in theory marks along with internal assessment theory; candidates have to get min. 50% marks in theory and viva collectively for passing the examination.

**Bachelor of Occupational Therapy PART - III**

1. The part – III Examination shall consist of the following subjects (Teaching hour approximately for lectures to be delivered and practical classes to be held in each subject indicated against each subject:

No	SUBJECT	LECTURES	PRACTICAL
1.	Occupational Therapy in Medical condition Part – II	140	60
2.	Occupational Therapy in Surgical condition Part – II	160	60
3.	Disability Prevention and Rehabilitation including Prosthetics & Orthotics ADL	100	-
4.	Bio Statistics and Research Methodology	80	-

2. The full marks for each subject and the minimum marks required for passing the part III Examination shall be as follows:

**Third Year B.O.T. Examination**

S.No.	Subject	Internal Assessment		University Examination			Total
		Theory	Practical	Theory	Viva	Practical	
1	Occupational Therapy in Medical Condition Part-2	20	20	100	20	40	200
2	Occupational Therapy in Surgical Condition Part-2	20	20	100	20	40	200
3	Disability Prevention and Rehabilitation including Prosthetics and Orthotics ADL	20	20	100	20	40	200
4	Biostatistics & Research methodology (NUES)	20	-	80	-	-	100
<b>Total Max. Marks</b>							<b>700</b>

**N.B. – Viva marks will be added in theory marks along with internal assessment theory; candidates have to get min. 50% marks in theory and viva collectively for passing the examination.**

**Bachelor of Occupational Therapy Part – IV**

- Part – IV Examination shall consist of the following subjects (teaching hour approximately for lectures to be delivered and practical classes to be held in each subject indicated against each subject).

No	SUBJECT	LECTURES	PRACTICAL
1.	Community Medicine	75	--
2.	Rehabilitation Medicine	120	50
3.	Alternative Medicine	50	50
4.	Physical Diagnosis	120	50
5.	Ethics & management Study	60	--
6.	Seminars & Discussions	50	--
7.	Occupational Therapy Clinicals	--	960

2. The full marks for each subject and the minimum marks required for passing the same shall be as follows:

**Fourth Year B.O.T. Examination**

Fourth Year B.O.T. Examination							
S.No.	Subject	Internal Assessment		University Examination			Total
		Theory	Practical	Theory	Viva	Practical	
1	Community Medicine	20	--	80	--	--	100
2	Rehabilitation	20	20	100	20	40	200
3	Alternative Medicine	20	20	100	20	40	200
4	Physical Diagnosis	20	20	100	20	40	200
5	Ethics & management studies	20	-	80	-	-	100
6	Seminar and Discussion (NUES)	50	-	-	-	-	50
7	Clinical (NUES)	50 (Based on regular attendance and clinical performance)					50
		100					
Total Max. Marks							900

**\*In Seminar and Discussion / Clinical (NUES)- No university examination the students performance throughout the academic year will be evaluated by the institute and marks will be sent to university.**

**N.B. – Viva marks will be added in theory marks along with internal assessment theory; candidates have to get min. 50% marks in theory and viva collectively for passing the examination.**

**11. APPOINTMENT OF THE EXAMINERS/ QUESTION PAPER SETTERS:**

The appointment of examiners for the University Examination shall be based on following criteria;

- 11.1 For Theory paper setting and valuation there shall be two examiners for each subject, one Internal Examiner and one External Examiner shall be required. Both the examiners shall have minimum qualification and experience as an Assistant Professor with 3 years teaching experience in the concerned subject.

- 11.2 For the Practical examinations there shall be two examiners for each subject, one External Examiner and one Internal Examiner, with minimum qualification and experience as an Assistant Professor with 3 years teaching experience in the concerned subject.
- 11.3 The External Examiner shall, be the subject expert from outside the University having Masters/ Post Graduate qualification in the concerned subject with minimum 3 years teaching experience.
- 11.4 The Faculty of the Subject/ Head of the Department with minimum 3 years of teaching experience shall be the Internal-Cum-convener examiner for the examinations.

## 12. DIVISION AND MERIT LIST:

- 12.1 The Division shall be awarded after Annual University Examination in each academic year and shall be based on the aggregate marks obtained by the candidates at his/ her successful attempt in annual University Examination.  
There shall be Divisions as follows:  
**Distinction:** 75% and above of grand total marks in First attempt.  
**First Division:** >60% and <75% of grand total marks in First attempt.  
**Second Division:** >50% and <60% of grand total marks in First attempt.  
**Distinction in individual subject:** >75% marks in individual subject shall be indicated exclusively in the mark sheet provided in First attempt
- 12.2 The merit shall be declared by the University after the final year University examination, on the basis of the aggregate marks of all academic years in University examination, the merit list shall include the first 5 candidates securing at least First Division and passing all the appeared subjects in annual examination in first attempt.

## 13. REVALUATION/ RE-TOTALING:

- 13.1 Student may apply for Re-evaluation and/or Re-totaling of the answer sheet of the appeared subject; post result for any doubt in the marks obtained.
- 13.2 Student may go for all the appeared subjects of that session for Re-evaluation as well as Re-totaling simultaneously, within stipulated time, as prescribed by the University.

## 14. COMPULSORY ROTATARY INTERNSHIP:

- 14.1 Candidates seeking entry to the internship period must have passed all examinations in all subjects (i.e. He/She must have secured total credits of the Programme).
- 14.2 Duration: 6 months inclusive of posting in rural setup/CBR/similar setup.
- 14.3 During the internship candidate shall have to work full time average 7 hours per day (each working day) for 6 Calendar months (total Credit hours – 1260).
- 14.4 Each candidate is allowed maximum of 6 holidays during entire Internship Programme and in case of any exigencies during which the candidate remains absent for a period more than 6 days, he/she will have to work for the extra days during which the candidate has remained absent. This will be subject to approval from institution head.
- 14.5 Assessment: The interns/candidate shall maintain the record of work, which will be verified and certified by the Head of the Department under whom he/she

- works. Apart from scrutiny of the record of work, the Head of the Department shall undertake assessment and evaluation of training in attendance, discipline, knowledge, skills and attitude for the duration of training. The assessment report of the candidate shall be sent to the Parent institution.
- 14.6 Based on the record of work and date of evaluation the Director/Principal shall issue Certificate of Satisfactory Completion' of training following which the University shall award the Bachelor of Occupational therapy Degree or declare the candidate eligible for the same.
- 14.7 In the event of unsatisfactory report, the said intern shall have to repeat the internship for the period to be decided by the Head of the Institution concerned.
- 14.8 Intern will abide by all the rules & regulations of Institution/Hospital where they are posted.
- 14.9 Intern shall be responsible for proper use of equipments of the Institute/Hospital where they are posted. He/She shall be liable to pay for damages caused to the equipments resulting from improper use by him/her.
- 14.10 Internship duration can be extended by the Principal / Director on the grounds:
- 14.10.1 Remaining absent in excess of the permitted 6 days leave period, which is due: An intern will compensate by working extra for each day leave taken.
- 14.10.2 Unsatisfactory performance during the period: If there are unsatisfactory reports in terms of performance of the intern, submitted by the Department In-charge, the said intern shall have to repeat the internship for a period at least two months further.
- 14.10.3 Case of indiscipline at any level: A Discipline and Action Committee will be formed in the college / Institution convened by Internship coordinator/HOD OT & headed by Director/Principal. In case of any lack of discipline, breach of trust or indulgence in any criminal activity on the part of the interns when reported by the concerned departments of Hospitals/Institutions where the interns have been posted, the defaulting Intern shall be called back immediately and subjected to disciplinary proceedings by the Disciplinary Action Committee.
- 14.10.4 Punishments:
- 14.10.4.1 Suspension of Internship for a period of 3-4 weeks for the reasons to be recorded. Following this disciplinary suspension, internship can be resumed only after submission of an appropriate undertaking / guarantee / surety. Period of suspension shall be considered as Break in Internship. Disciplinary Action Committee shall decide the period of suspension and resumption of Internship for a specified period.
- 14.10.4.2 Rustication & Termination: In case of a serious complaint of indiscipline or breach of trust against intern or any criminal activity done by intern according to the law of the country, he/she may be rusticated along with termination of Internship. Hon'ble Court of Law can resume the Internship in this case only on the abrogation of criminal charges against him.
- 14.11 Institution shall have to satisfy themselves that satisfactory infrastructure facilities of Occupational therapy exist in the Institute / Hospital where the internship



training has to be undertaken. Following parameters / guidelines have been suggested:

- 14.11.1.1 It is mandatory for the Institution conducting BOT Programme to have its own Occupational therapy clinic fully furnished with all the necessary equipments as per the curriculum of the Programme.
- 14.11.1.2 The Institutes & the Hospitals should have the Occupational therapy department with all the necessary infrastructure facilities.
- 14.11.1.3 Senior Occupational therapist with sufficient clinical experience should manage the Occupational therapy departments in the Institutes/Hospitals.
- 14.11.1.4 Institute Director / principal can at his discretion grant NOC to the students to do the Internship at the place of his choice provided; the concerned Hospital fully satisfies the above criteria. For the purpose of granting NOC the candidate shall have to submit to the Institution the status of Occupational therapy Services available at the place where he intend to do his Internship.

#### **EVALUATION OF STUDENTS UNDER PRACTICAL/INTERNSHIP:**

S. No.	Description	Satisfactory/ Unsatisfactory
1.	Attendance	
2.	Discipline and general behavior in the Department	
3.	Approach to patients	
4.	Inquisitiveness regarding the subject	
5.	Knowledge about evaluation of conditions	
6.	Knowledge about various therapeutic modalities	
7.	Knowledge about actual application of therapeutic skills	

#### **15. CANCELLATION OF ADMISSION:**

The admission of a student at any stage of study shall be cancelled by the Vice Chancellor based on recommendation of Head of the Institution, if:

- 15.1 He/She is not found qualified as per Government norms/ statutory body norms and guidelines or the eligibility criteria prescribed by the University.
- 15.2 He/ she is found to have produced false/ forged documents or found to have used unfair means to secure admission.
- 15.3 He/She is found involved in serious breach of discipline in the Institution or in the University campus.
- 15.4 He/She is found involved in any Police matter.

#### **16. THE QUALIFIED OCCUPATIONAL THERAPIST WILL BE ABLE TO:**

- 16.1 Demonstrate appropriate knowledge, skills and attitude required for the competent, reflective practice of Occupational therapy.
- 16.2 Demonstrate the necessary critical skills to be able to adapt to and utilize new developments in Occupational therapy practice for the benefit of the patient.

- 16.3 Demonstrate the ability to analyse and evaluate therapeutic interventions.
- 16.4 Identify the needs of the patient using assessment techniques and determine the objectives of patient management.
- 16.5 Carry out and progress safe and effective patient management programs.
- 16.6 Critically evaluate their own role and performance within an interdisciplinary team.
- 16.7 Demonstrate the ability to apply research techniques to the practice of Occupational therapy.

**17. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE No. 75**  
**Establishment under M.P. Act No. 17 of 2007**  
**MASTER OF OCCUPATIONAL THERAPY (M.O.T.)**

**1. GENERAL RULES:**

The Degree of Master of Occupational Therapy shall comprise a course of study spread over a period of 2 academic years and the candidates will be full time regular students of the course.

Conditions to be fulfilled by the applicant for becoming eligible to receive the Certificate of Recognition and affiliation for Master of OCCUPATIONAL THERAPY.

**2. TITLE AND COMMENCEMENT:**

Masters Degree Program in Occupational therapy (MOT) from MALWANCHAL UNIVERSITY shall offer three specialties & the respective Degree shall be called as follow-

Master Degree Program	Specialty
Master of Occupational Therapy (MOT)	Pediatric Occupational therapy.
Master of Occupational Therapy (MOT)	Neurological Occupational therapy.
Master of Occupational Therapy (MOT)	Mental Health Occupational therapy.

**3. COURSE OUTLINE:**

The Master's Degree in Occupational Therapy is a two year program consisting of classroom teaching, self-academic activities and clinical posting.

Every student shall attend symposia, seminars, conferences, clinics and lectures during each year as prescribed by department and not absent himself/herself from work without valid reason. In the first year theoretical basis of Occupational Therapy is refreshed along with research methodology and biostatistics. The students are rotated in all areas of clinical expertise during this period. They are required to choose their study for dissertation and submit a synopsis. During the second year the students will be posted in their area of speciality. They are required to complete and submit their dissertation.

The learning program includes seminars, journal reviews, case presentations, case discussions and classroom teaching. Some of the clinical postings are provided at other reputed centres in the country in order to offer a wider spectrum of experience. The students are encouraged to attend conferences, workshops to enhance their knowledge during the course of study. University examinations are held at the end of second year.

**4. ELIGIBILITY FOR ADMISSION:**

Master of Occupational Therapy course shall be open to those who passed Bachelor of Occupational Therapy B.Sc. (OT) or BOT degree from recognized institutions/ any recognized university where the mode of study is a full time regular program or equivalent with not less than 50% of marks in aggregate.

In case of SC/ST/OBC students the relaxation of the eligibility percentage for the admission will be as per the "Madhya Pradesh state Government rules".

Admission to the course will be as per the performance of the student in BOT aggregate & merit basis / Common University Entrance or as per apex council norms. The student should have minimum 50% aggregate in BOT for appearing in entrance examination.

**5. GOALS:**

- 5.1 Impartation of education with research basis in order to validate techniques & technology in practice to Occupational Therapy.
- 5.2 Formation of base of the professional practice by referral as well as first contact mode using evidence based practice.
- 5.3 Preparation of a postgraduate student towards his/her professional autonomy at par with global standards
- 5.4 Acquainting a student with concept of quality care at the institutional as well as at the community levels.
- 5.5 Inculcation of appropriate professional relationship in multidisciplinary set up, patient management and co partnership basis.
- 5.6 Preparation of students to address problems related to health education and community Occupational Therapy.
- 5.7 Practicing the concept of protection of rights of the community during referral as well as first contact practice.
- 5.8 Incorporation of concept of management in Occupational Therapy.
- 5.9 Experience in clinical training and undergraduate teaching.

**6. DURATION OF COURSE:**

The duration of the certified study for the Master of Occupational Therapy shall be full time regular course and its duration shall extend over a period of two academic Years for the award of the degree. The student for the award of the MOT degree shall have to qualify in all papers prescribed for the MOT course within a period of FOUR years from the date he/she joined the course or as per University Policy.

**7. MEDIUM OF INSTRUCTION:**

English will be the medium of instruction for the subjects of study and for the examination of the MOT course.

**8. METHODS OF TRAINING:**

The training of postgraduate for MOT degree shall be on a full time pattern with graded responsibilities in the management and treatment of patients entrusted to his / her care. The participation of all the students in all facets of educational process is essential. Every candidate should take part in seminars, group discussions, clinical rounds, care demonstrations, clinics, journal review meetings & CME. Every candidate should be required to participate in the teaching and training programs of undergraduate students. Training should include involvement in laboratory experimental work and research studies.

**9. MONITORING PROCESS OF STUDIES (INTERNAL MONITORING):**

- 9.1 It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring is done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects.
- 9.2 **Work diary:**  
Every candidate shall maintain a work diary and record his/her participation in the training programme conducted by the department such as journal reviews, seminars etc.  
Special mention may be made of the presentations by the candidate as well as

details of clinical or laboratory procedures, if any conducted by the candidate. The work diary shall be scrutinized and certified by the Head of the Department and Head of the Institution and presented in the university examination.

**9.3 Periodic tests:**

The College may conduct periodic tests. The test may include written theory papers, practical, viva voce and clinical on the pattern of university examination. Records and marks obtained in such tests will be maintained by the Head of Department and sent to the University, when called for.

**10. ATTENDANCE REQUIREMENT FOR EXAMINATION:**

A candidate is required to attend a minimum of 80% of training and of the total classes conducted during each academic year of the MOT course or as per University Policy. Provided further, leave of any kind shall not be counted as part of academic term without prejudice to minimum 80% of training period every year or as per University Policy. Any student who fails to complete the course in this manner shall not be permitted to appear the University Examinations. A candidate who does not satisfy the requirement of attendance even in one subject or more will not be permitted to appear for University Examination. He / She will be required to make up the deficit in attendance to become eligible to take subsequent examination.

**11. CONDONATION OF ATTENDANCE:**

Vice Chancellor is empowered to condone 10% of attendance on valid grounds. Monthly attendance of students has to be sent to the university every month from the respective affiliated colleges. In this regard University decision will be final.

**12. PERMISSION TO APPEAR IN UNIVERSITY EXAMINATION OF MOT COURSE:**

The candidates admitted in an academic year will be registered to take up their University examination after completion of two academic years.

**13. COMMENCEMENT OF THE EXAMINATION:**

There shall be two university examinations: Main and Supplementary examination as per university notification every year academic year for MOT Final year candidates only. For MOT course (which is of two years duration), the University examination will be held at the end of second year only. However, at the end of first academic year, Internal examination will be conducted at the college level itself and the result has to be sent to the University as per the scheduled notification (These marks will be included in the Final Transcripts), and the students are eligible to appear their final year examination at MALWANCHAL UNIVERSITY, subject to passing in first year internal examination conducted at college / institution level.

**14. WORKING DAYS IN AN ACADEMIC CALENDAR:**

There shall be 240 minimum teaching days in one academic year.

**15. DISSERTATION/THESIS:**

Every candidate pursuing MOT degree course is required to carry out work on a selected research Project under the guidance of a recognized postgraduate teacher. The results of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and techniques. It includes identification of a problem, formulation of a hypothesis, search and review of literature getting acquainted with recent advances, designing of a research

study, collection of data, critical analysis, and comparison of results and drawing conclusions.

Every candidate shall submit to the Registrar of university in the prescribed Performa a synopsis containing particulars of proposed dissertation work within 6 months from the date of commencement of the course on or before the dates notified by the university. The synopsis shall be sent through the proper channel. Such synopsis will be reviewed and the university will register the dissertation topic. All the synopses of Dissertation have to be approved by the Institutional Ethical Committee.

No change in the dissertation topic or guide shall be made without prior approval of the university. Guide will be only a facilitator, advisor of the concept and responsible in correctly, directing the candidate in the methodology and not responsible for the outcome and results.

The dissertation should be written under the following headings

- Title Page
- Certificates
- Acknowledgement
- List of Abbreviation
- Table of Contents
- List of Graphs
- List of Figures
- List of Tables
- Introduction
- Aims or objectives
- Review of Literature
- Material and Methods
- Results
- Discussion
- Conclusion
- References
- Appendices

The written text of dissertation shall not be less than 50 pages and shall not exceed 100 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 size, 8.27" x 11.69" and bound properly. Spiral binding should be avoided. The guide, head of the department and head of the institution shall certify the dissertation.

Five copies of dissertation thus prepared shall be submitted to the Registrar (Evaluation), three months before final examination on or before the dates notified by the university.

The examiners appointed by the university shall evaluate the dissertation. Approval of dissertation work is an essential precondition for a candidate to appear in the university examination. The dissertation shall be valued by the evaluator (Examiners) apart from the guide out of which one is external outside the institution zone of university / from other college of the same university. Evaluator acceptance other than the guide will be considered as a precondition for eligibility to take the examination.

### **GUIDE:**

The academic qualification and teaching experience required for recognition by this university is as per the criteria for recognition of MOT teachers for guides.

#### **16.1 Criteria for MOT teacher / guide**

- 16.1.1 M.Sc. (OT) /MOT with Three years teaching experience working on a full time position at a Recognized Institution.

16.1.2 The age of guide / teacher shall not exceed 65 years.

16.1.3 The guide student ratio should be 1:5

### 16.2 Change of Guide

In the event of registered guide leaving the college for any reason or in the event of death of guide, guide may be changed with prior permission from the university.

16.3 Candidate cannot be left without guide for more than 3 months total during their post-graduation study.(i.e. in the event of resignation of guide college should appoint the guide within 3 months as per the essential criteria of guide) or as prescribed by University/Government.

For other provision which is not covered in this ordinance will be applicable as per the university norms.

## 7. SCHEME OF EXAMINATION:

MOT 1 <sup>st</sup> Year(Common for All candidates): Institutional Examination as per University Notification			
Paper	Subject	Max. Marks	Minimum Passing Marks
Paper 1	Basic Medical Sciences & kinesology	100	50
Paper 2	Occupational therapy knowledge based	100	50
Paper 3	Research Methodology & Biostatistics and Educational Methodology	100	50
Total Max. Marks		300	150

(There shall be institutional/college level theory examination as per university notification, marks to be sent to university)

## MOT 2<sup>nd</sup> / Final Year: University Examination

S. No.	SUBJECT	Written	Practical	Viva	Total
1.	Occupational therapy practice tool	100			100
2.	Physical Diagnosis & Rehabilitation	100	100	50	250
3.	Elective-I*	100	100	50	250
4.	Elective-II**	100			100
5.	Dissertation			100	100
Total Max. Marks					800

### lective-I\*: Subjects-

- M.O.T. Neurology: Neurological Occupational Therapy.
- M.O.T. Pediatric: Pediatric Occupational Therapy.

- **M.O.T. Mental health:** Mental Health Occupational Therapy.

**lective-II\*\*:** Subjects-(Advanced Occupational therapy)

- **M.O.T. Neurology:** Advanced Occupational therapeutic in Neurological Occupational therapy.

- **M.O.T. Pediatric:** Advanced Occupational therapeutic in Pediatric Occupational Therapy.

-**M.O.T. Mental health:** Advanced Occupational therapeutic in Mental Health Occupational Therapy.

N.B.-Viva marks will be added in practical marks; candidates have to get min.50% marks i.e. 75 marks in practical and viva collectively for passing the practical examination

**COURSE CONTENT & STRUCTURE  
COURSE OF THE STUDY**

**MOT 1<sup>st</sup> Year (First 12 Months)**

S. No.	SUBJECT	Teaching Hours		
		Theory	Clinical/ Practical	Total
1.	Basic Medical Sciences &	100	75	175
	Biomechanics	50	75	125
2.	Occupational therapy knowledge based	200	150	350
3.	Research Methodology & Biostatistics	100		100
	Educational Methodology	50		50
4.	Clinical training		650	650
5.	Seminar, Journal Club, Teaching Skills, Case Presentation, Field Works etc.		150	150
				1600



S. No.	SUBJECT	Teaching Hours		
		Theory	Clinical/ Practical	Total
1.	Occupational therapy practice tool	175	50	225
2.	Physical Diagnosis	175	175	350
	Rehabilitation	100	100	200
3.	Elective-I*	150	100	250
4.	Elective-II**	150	100	250
5.	Dissertation		150	150
6.	Clinical training		650	650
7.	Seminar, Journal Club, Teaching Skills, Case Presentation, Field Works etc.		150	150
				2225

N.B. – (1) Dissertation synopsis have to submit to Registrar, after approval from the institutional ethical committee within 4 months of joining the course.

(2) Examination will be at end of one academic year, there will be institutional examination, which has to qualify by the student to get eligible for MOT 2nd /final year curriculum.

The pattern of University theory examination will be as per Regulatory body norms.

#### **Elective-I\*: Subjects-**

- **M.O.T. Neurology:** Neurological Occupational Therapy.
- **M.O.T. Pediatric:** Pediatric Occupational Therapy.
- **M.O.T. Mental health:** Mental Health Occupational Therapy.

#### **Elective-II\*\*: Subjects-(Advanced Occupational therapy)**

- **M.O.T. Neurology:** Advanced Occupational therapeutic in Neurological Occupational therapy.
- **M.O.T. Pediatric:** Advanced Occupational therapeutic in Pediatric Occupational Therapy.
- **M.O.T. Mental health:** Advanced Occupational therapeutic in Mental Health Occupational Therapy.

#### **18. Passing Marks of Examination:**

- 1.1 The passing marks of examination would be 50% for each subject and also in total marks obtained. The candidate has to pass in theory and practical examination separately.
- 1.2 The candidate has to pass separately in each subject in internal assessment examination (with 50% marks) in order to be eligible to appear in university examinations.
- 1.3 The grace marks shall be allowed according to the general ordinance relating to "Award of Grace Marks".
- 1.4 Regarding Grace Marks it was decided that total weightage of grace marks would be 5 (five), and that grace marks can be split between the subjects. There will not be any grace marks for the Practical/viva examination
- 1.5 Grace marks will not be added to total marks of the candidate.

19. **Supplementary Exam:** A candidate will have to reappear in the whole examination including theory & Practical during the supplementary examination. Supplementary examination can be conducted after 6 months of the main examination.
20. After completion of two academic years of studies he shall not have any privileges of a regular student.

21. **DECLARATION OF CLASS:**

**A Successful candidate-**

- 21.1 Who secure 75% and above in the aggregate marks shall be declared to have secured 'FIRST CLASS WITH DISTINCTION' Provided he/she passes the whole examination in the FIRST ATTEMPT.
- 21.2 Who secure above 60% & Less than 75% in the aggregate marks shall be declared to have passed the examinations in the 'FIRST CLASS', Provided he/she passes the whole examination in the FIRST ATTEMPT.
- 21.3 Who secure above 50% & Less than 60% in the aggregate marks shall be declared to have passed the examinations in the 'SECOND CLASS', Provided he/she passes the whole examination in the FIRST ATTEMPT.
- 21.4 All other successful candidate who passed the examination in more than first/one attempt shall be declared to have PASS class; irrespective of percentage of marks secured.

22. **A successful candidate of the M.O.T. Part-I and Part- II examination shall be awarded degree in following nomenclature:**

- 22.1 M.O.T. In Pediatric Occupational therapy.
- 22.2 M.O.T. In Neurological Occupational therapy.
- 22.3 M.O.T. In Mental Health Occupational therapy.

**PATTERN OF MODEL QUESTION PAPER FOR MOT EXAMINATION**

The pattern of University theory examination will be as under for 100 Max. Marks.

Duration : 3:00 hrs

No. & Type of Question	Marks for each question	Total Max. Marks
10 Very Short Answer Questions (Answer to be given in 50-60 words)	02	20
5 Short Answer Questions (Answer to be given in 250-300 words)	10	50
2 Essay Type Questions (Answer to be given in 450-500 words)	15	30
		100

➤ **MOT Practical / Clinical :**

- Practical-I + Viva-voce = 1x100= 100 Marks
- Practical-II + Viva Voce = 1x100= 100 Marks
- [Marks Entry: Practical/Clinical = 100 Marks Marks]

**150 Marks**

Viva Voce = 50

Viva Voce = 50

Viva-voce = 50

Q4

*Note: All cases for clinical examination should be on patients & not on model*

➤ **PARTICULARS OF PRACTICAL AND VIVA-VOCE**

Clinical Examination will be aimed at examination of clinical skills and competence of the candidates for undertaking independent work as a specialist

<b>PRACTICAL / VIVA-VOCE</b>	<b>DESCRIPTION</b>	<b>MARKS ALLOTTED</b>
Practical I	Long case from Speciality area to assess investigative, diagnostic skills and patient management skills	100
Viva-voce	5 Spotters and viva from the speciality area	50
Practical II	Major Elective long case aimed at examining clinical skills and competency of the candidate for undertaking independent work as specialist	100
Viva-voce	Viva on dissertation/ Speciality.	50

➤ **PARTICULARS OF VIVA VOCE**

Viva- Voce examination shall aim at assessing depth of knowledge, logical reasoning, confidence & oral communication skills and spotters. Special emphasis shall be given to dissertation work during the MOT examination. The marks of Viva-Voce examination shall be included in the clinical examination to calculate the percentage and declaration of results.

**Practical – I** - There shall be 2 examiners. One of them shall be external outside the zone from the same speciality and the other shall be internal from the same speciality from the same college.

**Practical – II** - There shall be 2 examiners. One of them shall be external outside the University from the same speciality and the other will be guide assigned to the student from the same college.

➤ **CRITERIA FOR DECLARING PASS IN THE UNIVERSITY EXAMINATION**

Candidate has to secure minimum 50% marks in both theory and Practical Separately.

➤ **DECLARATION OF CLASS**

**First Class distinction** – 75% & above in aggregate provided that the candidate passes the examination in 1<sup>st</sup> attempt.

**First Class** – 60% & above in aggregate provided that the candidate pass the examination in 1<sup>st</sup> attempt.

**Pass** – 50% of maximum marks in theory aggregate and 50% of maximum marks in clinical and Viva-Voce aggregate.

➤ **GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)**  
**ORDINANCE No. 76**  
**Establishment under M.P. Act No. 17 of 2007**  
**BACHELOR OF SCIENCE IN X-RAY RADIOGRAPHER**  
**TECHNOLOGY (BXRT)**  
**3 YEAR DEGREE COURSE**

**1. AIMS AND OBJECTIVES**

**1.1 AIMS**

- 1.1.1 To provide skilled professionals who will be able to work in a variety of Radiography Technology.
- 1.1.2 To provide students with an overview of various medical X-Ray and Radiotherapy Procedures.

**1.2 OBJECTIVES**

- 1.2.1 To impart adequate theoretical and practical knowledge in basic Medical Radiography Technology.
- 1.2.2 To perform routine and special Radiography Techniques.
- 1.2.3 To introduce quality control system in Radiography.

**2. COURSE STRUCTURE**

- 2.1 The Bachelor Degree in X-Ray Radiographer Technology (BXRT) of 3 years (Three academic years) course here in after called 3 year degree course shall be designated as Bachelor of X-Ray Radiographer Technology, in short BXRT.
- 2.2 Duration of the course : The Bachelor of X-Ray Radiographer Technology is a three year regular degree course, named below:
  - 2.2.1 B.Sc. XRT- I year
  - 2.2.2 B.Sc. XRT- II year
  - 2.2.3 B.Sc. XRT- III year
- 2.3 Each academic year shall consist of 240 teaching days.
- 2.4 The Student admitted in BXRT, course shall have to complete the course within - the maximum permissible duration of 6 years, from the date of admission or as per University Policy.

**3. ACADEMIC QUALIFICATION & SELECTION CRITERIA FOR ADMISSION:**

- 3.1 Admission to the First year-in B.Sc. in X-Ray Radiographer Technology degree course shall be 10+2 system of education in science group or equivalent examination with Chemistry, Physics & Biology, as main subjects conducted by a recognized Board/Council/ University with minimum of 40% marks.
- 3.2 Vocational Subjects like Bio-technology, MLT, Fisheries, Dietetics, Live Stock and Poultry etc. in substitution for Biology shall be also considered for eligibility.
- 3.3 The candidate should have completed minimum of 17 years of age on/before 31<sup>st</sup> December of the concerned academic year.
- 3.4 Selection Criteria: The admission in BXRT- First Year shall be based on the merit of the qualifying examination.

Or

Common Entrance Test (CET), conducted by the University/ any designated agency.

- 3.5 On admission, every candidate shall have to get fitness certificate from MU Hospital, for physical fitness.

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**4. COMMENCEMENT OF COURSE:**

The course shall be commencing from the month of August of every academic year.

**5. REGULATIONS RELATING TO THE ASSESSMENT OF ACADEMIC GROWTH OF THE STUDENT:**

The assessment of academic growth of the student shall be done on the basis of Three Sessional Examination (conducted during the year) and one University Examination (conducted at the end of the academic year).

The medium of Instruction and Examination shall be English throughout the course of the study.

**5.1 Attendance**

5.1.1 Candidates appearing as regular student for any annual examination are required to attend 75% of the total lectures delivered and of the practical classes held separately in each subject of the course of the study. However only Dean/ Principal / Head-Faculty of Allied Health and Paramedical Sciences are empowered to condone 10% of attendance on valid grounds or as per University Policy.

5.1.2 The total lecture and practical shall be conducted as per scheme and syllabus.

**5.2 Sessional Examinations**

Three Sessional Examinations shall be conducted for each subject, separately for theory and practical.

**5.3 Internal Assessment**

The internal assessment for each subject of each academic year shall carry 100 marks.

**5.4 University Examination; Theory & Practical****5.4.1 Written Examination**

5.4.2 There shall be 2 University Examination in a year: Main examination in May/June and Supplementary Examination (II examination) in October/ November. The succeeding examination shall be held within 6 months.

**5.5 Appointment of the Examiners/ Question Paper Setters**

The appointment of examiner for the University Examination shall be based on following criteria;

5.5.1 For Theory paper setting one examiner will be an External, minimum an Assistant Professor with 3 years teaching experience in the concerned subject.

5.5.2 For the Practical examinations there shall be two examiners for each subject, one External Examiner and one Internal Examiner, with minimum qualification and experience of an Assistant Professor with 3 years teaching experience in the concerned subject.

5.5.3 The External Examiner shall be the subject expert from outside the University having Masters/ Post Graduate qualification in the concerned subject with minimum 3 years teaching experience.

5.5.4 The Faculty of the Subject/ Head of the Department with minimum 3 years of teaching experience shall be the Internal Cum-Convenor examiner for the examinations.

**5.6 Criteria for Passing**

In each subject/head (theory and practical);

- 5.6.1 In all the University examinations, the candidates shall have to obtain 50% marks separately in theory plus internal assessment and practical plus viva voce examination.
- 5.6.2 Each theory paper and practical will be treated as separate subject/ head for the passing.
- 5.6.3 The student shall carry over two subjects from one year to the following year and must pass in the failed subject before appearing in the next year examination. The Student shall carry two subjects from first year to second year as well as second year to third year and must pass in the failed subjects before appearing in the next year examination.

#### 5.7 Division and Merit List

- 5.7.1 The Division shall be awarded after Annual University Examination in each academic year and shall be based on the aggregated marks obtain by the candidates at his/ her successful attempt in annual University examination.

There shall be Divisions as follows:

**Distinction:** 75% and above of grand total marks in First attempt.

**First Division:** >60% and <75% of grand total marks in First attempt.

**Second Division:** >50% and <60% of grand total marks in First attempt.

**Distinction in individual subject:** >75% marks in individual subject shall be indicated exclusively in the mark sheet provided candidates to passing in the First attempt.

- 5.7.2 The merit shall be declared by the University after the final year University examination, on the basis of the aggregate marks of all academic years in University examination. The merit list shall include the first five candidates securing at least First Division and passing all the appeared subjects in annual examination in first attempt.

#### 5.8 Three month Compulsory Rotatory X-Ray Radiography Training

For BXRT III year students, three months Compulsory Rotatory Radiography Training shall be compulsory as a part of partial completion of the course. The training shall be undertaken in any of Radiography center.

For this exercise the students may require to spend three months in rotation with at-least four following labs:

- a. X-Ray Lab
- b. Radiotherapy Lab
- c. C.T. Imaging Lab
- d. M.R.I. Imaging Lab

**The Laboratory training should cover the following terms:**

The recognized laboratory shall require experts with BXRT qualification, for the guidance of the students. Student: Technician ratio will be 5:1.

- a. Student seeking training outside the campus must obtain a NOC from the HOI prior to the program.

- b. Minimum 50-70 hrs. is mandatory for each of the above mentioned Laboratories.
- c. Student should obtain Training, Completion Certificate with the duration from the concerned Hospital/ Laboratory. Same should be submitted to the Institute for qualifying III year University Examination.
- d. Any absenteeism misconduct, poor performance etc. may require extension of the program on the recommendation of the HOD.

**6. GRACE:**

The Grace marks shall be allowed according to the University Policy.

**7. REVALUATION / RE-TOTALING:**

Re-Totalling and Revaluation both should be allowed as per the University rules.

**8. CANCELLATION OF ADMISSION:**

- 8.1 The admission of a student at any stage of study shall be cancelled by the Vice Chancellor based on recommendation of Head of the Institution, if:
- 8.1.1 He/ She is not found qualified as per MP Paramedical Council norms and guidelines or the eligibility criteria prescribed by the University.
  - 8.1.2 He/ she is found to have produced false/ forged documents or found to have used unfair means to secure admission.
  - 8.1.3 He/ She is found involved in serious breach of discipline in the institution or in the University campus.

**Note:** Other rules regarding conduct of Examination/ Scheme and Syllabus may be amended/ modified as per consultation with Faculty of Allied Health and Paramedical Sciences and approved by Board of Studies.

**9. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

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**MALWANCHAL UNIVERSITY, INDORE (M.P.)**  
**ORDINANCE No. 77**  
**Establishment under M.P. Act No. 17 of 2007**  
**BACHELOR IN PROSTHETICS AND ORTHOTICS (B.P.O.)**

**1. OBJECTIVES:**

At the end of the BPO Course, the learner shall be able:

- 1.1 To assess, prescribe and provide comprehensive prosthetic and orthotic management to the individual and the community appropriate to his/her position as a member of the health care team.
- 1.2 Be competent to take preventive, supportive, corrective and rehabilitative steps in respect to the commonly encountered problems related to prosthetics and orthotics.
- 1.3 To carry out Evidence Based Practice in prosthetics and orthotics.
- 1.4 Appreciate the psycho-social, cultural, economic, and environmental factors affecting health, and develop humane attitude towards the patients/relatives, in discharging one's professional responsibilities
- 1.5 Be familiar with the various National policies and acts related to empowerment of Persons with Disabilities.
- 1.6 Acquire basic management & administrative skills in the areas of materials, financial and human resources related to prosthetics and orthotics
- 1.7 Develop the communication skills to establish effective communication with the stake holders
- 1.8 Practice prosthetics & orthotics ethics in patient care, service delivery, and research.
- 1.9 Develop attitude for self-learning and acquire necessary skills including the use of appropriate technologies.

**2. NOMENCLATURE:**

BACHELOR IN PROSTHETICS & ORTHOTICS (B.P.O.)

**3. PROGRAMME STRUCTURE:**

**FIRST YEAR**

Course Code	Title	Theor y Hrs	Practical Hrs	Tota l Hrs	Marks Theor y	Marks Practic al	Total Mark s	Credi t Point s
BPO101	Anatomy	120	40	160	100	--	100	
BPO102	Physiology	90	30	120	100	--	100	
BPO103	Workshop Technology & Material Science	80	20	100	100	—	100	
BPO104	Applied Mechanics & Strength of Materials	80	20	100	100	---	100	

BPO105	Biomechanics I	60		60	100	--	100	
BPO106	Basic Electronics	60	-	60	100		100	
BPO107 / 151	*Prosthetic Science -I	80	230	310	100	100	200	
BPO108 / 152	*Orthotic Science -I	80	230	310	100	100	200	
	Total	650	570	1220	800	200	1000	

**SECOND YEAR**

Course Code	Subjects	Theory Hrs	Practical Hrs	Total Hrs	Marks Theory	Marks Practical	Total Marks	Credit Points
BPO201	Pathology	80		80	100	--	100	
BPO202	Orthopaedics, Amputation Surgery & Imaging Science	80	20	100	100	--	100	
BPO203	Community Rehabilitation & Disability Prevention	60		60	100		100	
BPO204	Biomechanics II	70	30	100	100		100	
BPO 205	Psychology & Sociology	60		60	100		100	
BPO206 / 251	*Prosthetic Science-II	80	300	380	100	100	200	
BPO207 / 252	*Orthotic Science-II	80	300	380	100	100	200	
BPO 208	Pharmacology	60		60	100		100	
	Total	570	650	1220	800	200	1000	

**THIRD YEAR**

Course Code	Subjects	Theory Hrs	Practical Hrs	Total Hrs	Marks Theory	Marks Practical	Total Marks	Credit
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								Point s
BPO30 1/ 353	Computer Science & graphical communication	80	120	200	100	100	200	
BPO30 2	Bio-Mechanics- III	80		80	100	--	100	
BPO30 3	Assistive Technology	80		80	100	-	100	
BPO30 4	Research Methodology & Bio Statistics	60	---	60	100	---	100	
BPO30 5/ 351	*Prosthetic Science- III	80	320	400	100	100	200	
BPO30 6/ 352	*Orthotic Science- III	80	320	400	100	100	200	
	Total	460	760	1220	600	300	900	

## FOURTH YEAR

Course Code	Subjects	Theory Hrs	Practica l Hrs	Total Hrs	Marks Theory	Marks Practic al	Total Marks	Credi t Point s
BPO40 1/ 451	*Prosthetics Science-IV	60	160	220	100	100	200	
BPO40 2/ 452	*Orthotic Science- IV	80	160	240	100	100	200	
BPO40 3	Management & Administration	80	--	80	100	--	100	
BPO45 3	*Prosthetics Clinical Practice	--	250	250	-	200	200	
BPO45 4	*Orthotics Clinical Practice	---	250	250	-	200	200	
BPO45	Project Work**	--	180	180	---	100	100	

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	Total	220	1000	1220	300	700	1000	

**\*\*Joint projects may also be undertaken.**

**Note:- \*All theory & Practical examinations in the discipline of Prosthetics and Orthotics shall be conducted only by the regular appointed Prosthetic and Orthotic Faculty / Teachers from a teaching institution.**

#### **4. ADEQUACY OF THE SYLLABUS:**

The syllabus prescribed for the B.P.O. is on the basis of minimum requirements and therefore, Institutes implementing the B.P.O. programme can exercise flexibility in opting the number of papers without compromising on the adequacy and validity of the contents prescribed by the RCI.

#### **5. DURATION OF THE PROGRAMME:**

The duration of the programme is of four and half academic years (inclusive of 6 months of internship), which can be completed in a maximum of 6 years from the date of admission to the programme or as per University Policy.

#### **6. WORKING DAYS & ATTENDANCE:**

The programme will be conducted for at least 200 working days each year exclusive of the period of examination and admission. The institution shall work for a minimum of thirty six hours in a week (five or six days), during which physical presence in the institution of all the teachers and student clinician is necessary to ensure their availability for advice, guidance, dialogue and consultation as and when needed.

No student will be allowed to appear in the examination unless she/he has attended at least 75% of total number of classes in theory and 80 % in practical or as per University Policy. 100% attendance in internship is compulsory.

#### **7. ELIGIBILITY FOR ADMISSION:**

7.1 Candidate who has passed 10+2 in science or equivalent with physics, chemistry biology/ mathematics, and English with minimum aggregate 50% marks in PCBE/PCME will be eligible for admission to this course. Relaxation and reservation for SC/ST/OBC/PWD and other categories shall be as per the rules/instructions of the Central Govt /State Govt whichever is applicable.

7.2 Lateral Entry for Diploma in Prosthetics and Orthotics (D.P.O.)holders

- ✓ Candidates who have passed D.P.O. from a RCI recognized institute shall be eligible for admission directly in 3rd year i.e., 5th Semester of B.P.O. Programme.
- ✓ Admissions will be on the availability of the seats within sanctioned seats by the Council.
- ✓ In-service candidates may be permitted to undergo internship at their parent organization.
- ✓ Admission process as per University norms.
- ✓ All reservations in admission will apply as per Govt. rules for aided and Govt. institutions. The infrastructure will have to be enhanced as per the seats getting

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increased under reservation policy.

**8. PROGRAMME PATTERN:**

The programme has been developed on Annual basis.

**9. EXAMINATIONS:**

As per the respective University norms. Minimum passing marks for every subject will be 50% both in theory and practical. Each candidate will be given maximum n+ 2 attempts to clear the examination whether annual or semester.

**10. NATURE OF EVALUATION:**

Internal assessment for theory Courses will not exceed 20% and 25% in the practicum wherever applicable or as per respective University norms. Internal Assessment should be calculated by conducting minimum two class tests, two assignments, examination/practical examination and any other activities implemented by the parent organizations/university. Marks of Internal Assessment should be informed to the Students prior to commencement of university examinations.

**11. TRANSITORY REGULATIONS:**

Whenever a course or scheme of instruction is changed in a particular year, two more examinations immediately following thereafter shall be conducted according to the old syllabus / regulations. Candidates not appearing at the examinations or failing in them shall take the examinations subsequently according to the changed syllabus / regulations/as per University norms.

**12. AWARD OF DEGREE:**

After successful completion of all examinations and internship candidate will be awarded with the degree of Bachelor in Prosthetics and Orthotics (B.P.O.). The said degree will be classified in accordance with the affiliating University norms.

**13. CLINICAL PRACTICUM:**

The student should be able to meet the following learning objectives:

- ✓ Assess the medical condition of a patient related to their orthotic or prosthetic management using appropriate investigative techniques which include patient history taking and clinical testing.
- ✓ Formulate an optimal prosthetic and orthotic solution using information from the patient assessment, other members of the health care team, medical charts, etc.
- ✓ Communicate and discuss patient goals and expectations and discuss and debate the prosthetic management with the patient, co-workers and other members of the health care team.
- ✓ Reliably measure and capture a positive cast or image of patient / clients' appendage while correctly positioning the body part and if appropriate apply the necessary corrective force system.
- ✓ Identify, prescribe and justify selection of appropriate materials and componentry in the fabrication of the prostheses or orthoses.
- ✓ Construct the prostheses or orthoses using appropriate fabrication techniques in preparation for the initial fitting.

- ✓ Fit the prostheses or orthoses to the patient using static and dynamic functional criteria established from the original assessment.
- ✓ Evaluate the quality of the prostheses or orthoses fit to ensure the appropriate interface contouring, force application and trim lines.
- ✓ Identify problems related to device fit and/or alignment and be able to suggest and implement appropriate correction.
- ✓ Assess and solve prosthetic or orthotic problems as part of short and long term patient care.
- ✓ Maintain accurate records of patient treatment and follow up as well as confidentiality of such information.
- ✓ Communicate effectively with patient, co-workers, and other health care professionals in such a manner that will ensure the highest quality of service and reflect a professional attitude on the part of the student.
- ✓ Educate the patient /client and/or caregiver on use, care and function of the prostheses or orthoses.
- ✓ Understand the methodology of problem identification, problem solving in a process that includes all stake holders, with the patient at the centre.

#### 14. INTERNSHIP

- 14.1 Internship is compulsory.
- 14.2 Duration: 6 months
- 14.3 Eligibility: Internship will start immediately after the declaration of result of final year/ semester & candidate is declared pass in all four years / eight semesters
- 14.4 Structure and duration of the postings:
  - 14.4.1 The place of postings of the students for internship will be decided by the respective institute conducting the course.
  - 14.4.2 Students should spend minimum of 50% period of internship at parent institute and upto 50% period outside the parent institute like hospital set ups, educational set ups, special clinical facilities. Exposure should be for those areas where limited exposure was provided in the parent institute.
- 14.5 Mode of supervision during internship: Supervision should be provided by a Qualified Prosthetics and Orthotics Professional.
- 14.6 Maintenance of records by students: Every student should maintain records of the number of hours of clinical work in different areas and institutions. This should be certified by the head of the department/organisation/ institution or his/her nominee where the student is undergoing internship.
- 14.7 Extension of internship: Internship shall be extended by the number of days the student remains absent.
- 14.8 Stipend: As per the norms of the parent Institute.
- 14.9 Grading and evaluation of student: Grading and evaluation should be done by the institute where the candidate is doing internship. The student will be required to repeat those postings in which his/her performance is found unsatisfactory.
- 14.10 Certification: The parent institute/affiliating University will award a certificate after successful completion of the internship.
- 14.11 The University shall award the degree certificate only after the successful completion of the internship.

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#### 15. GENERAL:

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)**  
**ORDINANCE No. 78**  
**Establishment under M.P. Act No. 17 of 2007**  
**MASTER IN PROSTHETICS AND ORTHOTICS (M.P.O.)**

**1. OBJECTIVES:**

**1.1 Patient Care :** At the end of the MPO Course, the candidates shall be able to

- 1.1.1 Assess, prescribe and provide comprehensive prosthetic and orthotic management to the individual and the community appropriate to his/her position as a member of the health care team.
- 1.1.2 Be competent to take preventive, supportive, corrective and rehabilitative steps in respect to the commonly encountered problems related to prosthetics and orthotics.
- 1.1.3 To carry out Evidence Based Practice in prosthetics and orthotics
- 1.1.4 Appreciate the psycho-social, cultural, economic, and environmental factors affecting health, and develop humane attitude towards the patients/relatives, in discharging one's professional responsibilities
- 1.1.5 Be familiar with the various National policies and Acts related to Persons with Disabilities.
- 1.1.6 Acquire basic management & administrative skills in the areas of materials, financial and human resources related to prosthetics and orthotics
- 1.1.7 Develop the communication skills to establish effective communication with the stake holders
- 1.1.8 Practice prosthetics & orthotics ethics in patient care, service delivery, and research.
- 1.1.9 Develop attitude for self-learning and acquire necessary skills including the use of appropriate technologies.

**1.2 Research:** The candidate should be able to

- 1.2.1 Recognize a research problem.
- 1.2.2 State the objectives in terms of what is expected to be achieved in the end.
- 1.2.3 Plan a rational approach with full awareness of the statistical validity.
- 1.2.4 Spell out the methodology and carry out most of the technical procedures required for the study.
- 1.2.5 Accurately and objectively record on systematic lines the results and observations made.
- 1.2.6 Analyze the data using appropriate statistical approach.
- 1.2.7 Interpret the observations in the light of existing knowledge and highlight in what ways the study has advanced existing knowledge on the subject and what remains to be done.
- 1.2.8 Draw conclusions which should be reached by logical deduction and he / she should be able to assess evidence both as to its reliability and its relevance.
- 1.2.9 Write a thesis in accordance with the prescribed instructions.
- 1.2.10 Be familiar with the ethical aspects of research.

- 1.3 **Teaching:** He/ she should be able to plan educational programs in Prosthetics and Orthotics in association with his senior colleagues and be familiar with the modern methods of teaching and evaluation

The candidate should be able to:-

- 1.3.1 Deliver lectures to undergraduates and hold clinical demonstrations for them.
- 1.3.2 Write and discuss a seminar or a symposium and critically discuss it with his colleagues and juniors.
- 1.3.3 Methodically summarize internationally published articles according to prescribed instructions and critically evaluate and discuss each selected article.
- 1.3.4 Present cases at clinical conference, discuss them with his colleagues and guide his juniors in groups in evaluation and discussion of these cases.

2. **NOMENCLATURE:**

Master of Prosthetics & orthotics (MPO)

3. **ADMISSION CRITERIA:**

BPO/ B.Sc. (P&O) degree or equivalent from any recognized University in India with minimum 50% marks.

4. **MEDIUM OF INSTRUCTION:**

The medium of examination shall be English.

5. **DURATION OF THE COURSE:**

Two academic years.

6. **COURSE WORK:**

Student to pursue the course as given in the enclosed course curriculum

7. **AWARD OF DEGREE:**

The respective University on successful completion of the requirements will award the degree.

8. **CRITERIA OF PASSING:**

As per MALWANCHAL UNIVERSITY rules.

9. **ATTENDANCE:**

Each year shall be taken as a unit for purpose of calculating attendance and a student shall be considered to have put in required attendance for the year, if he/she has attended not less than 80% of the number of working periods (lectures, seminars) and 90% of clinics during each year. Failure to put in / meet the required attendance by any student render him / her disqualified to appear in the university examination. The candidate who will not be able to take the examination for want of attendance will be declared as Failed and will have to repeat the exam subsequently by putting in required attendance. Shortage of attendance can be condoned in genuine cases of absenteeism as per University Policy.





**10. APPEARANCE FOR THE EXAMINATION:**

A candidate shall apply for all papers of a year when he/she appears for the examination of that year for the first time.

**11. SCHEME OF EXAMINATION:**

As per MALWANCHAL UNIVERSITY rules.

**12. DISSERTATION:**

In the first year the students have to prepare the Research proposal (Synopsis) and present the same in the Seminar/Ethics committee for approval at the end of the first year.

In the 2<sup>nd</sup> year, student will work on a selected topic of dissertation prepared under supervision and guidance of recognized faculty and will submit the same at the end of the year. This shall be assessed by one internal and one external examiners for 100 marks in which event the average of marks assigned by both the examiner shall be awarded to the candidate or it shall be assessed as accepted or as rejected with no marks carried there of as per concerned University norms. In the event of discrepancy between internal & external examiners the dissertation will be referred to a third examiner and his / her verdict on the same will be taken as final. The candidates shall submit four copies of dissertation before the commencement of the theory examination of that year. Candidates who fail to submit their dissertation on or before the stipulated date shall not be permitted to appear for the final year examination.

**13. SCHEME OF INSTRUCTION:**

- 13.1 There shall be a University examination at the end of each year. The duration of the theory exam is 3 hours.
- 13.2 Every theory question paper shall ordinarily consist of five questions with one question for each unit, subject to the concerned universities regulation.
- 13.3 In case of theory papers the continuous evaluation (IA) will be for 20 marks. This covers a maximum of 5 marks for attendance & 15 marks for tests, seminars, assignments etc or as per University norms.
- 13.4 For clinical practicum, continuous evaluation (IA) will be based on performance of the candidate during the year. Examination for clinical practicum will be held along with theory papers by the university.
- 13.5 The concerned department shall notify in the first week of each year, scheme of continuous evaluation (IA) for theory & practical or as per University norms.
- 13.6 At least one week prior to the last working day, continuous evaluation (IA) marks secured by the candidates shall be displayed on the notice board.
- 13.7 In case of repeat test/seminar to candidates who absented themselves, matter may be dealt as per University norms.
- 13.8 The statement of continuous evaluation (IA) shall be sent to the Registrar (Evaluation) for both theory and clinical practicum at least one week prior to the commencement of the particular year examination.

**14. PRACTICAL'S:**

At the end of 1<sup>st</sup> and 2<sup>nd</sup> years internal viva voice exam will be carried out for award of

internal assessment for clinical work performed throughout the year.

**15. BOARD OF EXAMINERS, VALUATION:**

- 15.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation or as per University rules.
- 15.2 The examiners for scrutinizing and approving the question papers and scheme of valuation shall be from outside the institution/university or as per University rules.
- 15.3 Double valuation for the theory; dissertation and the average of the marks awarded by the internal and external examiners shall be taken as the final award or as per University rules.
- 15.4 In case of 20% or more deviation in the marks awarded by the internal and the external valuer, the scripts shall be referred to the third valuer and his evaluation will be final or as per University rules.
- 15.5 Grace marks to the candidate will be awarded based on University Policy.

**16. CLASSIFICATION OF SUCCESSFUL CANDIDATES:**

As per rules of the respective universities. Announcement of result, classes and ranks for the course as a whole will be as per the concerned university regulations.

**17. PROVISION FOR REPEATERS:**

The provision will be as per the concerned university regulations.

**18. MISCELLANEOUS:**

Any other issue not envisaged above shall be resolved by RCI / the Vice Chancellor in consultation with the appropriate body of the University which shall be final and binding.

**19. CLINICAL PRACTICUM-** The student should be able to meet the following learning objectives:

- 19.1 Assess the medical condition of a patient related to their orthotic or prosthetic management using appropriate investigative techniques which include patient history taking and clinical testing.
- 19.2 Formulate an optimal prosthetic and orthotic solution using information from the patient assessment, other members of the health care team, medical charts, etc.
- 19.3 Communicate and discuss patient goals and expectations and discuss and debate the prosthetic management with the patient, co-workers and other members of the health care team.
- 19.4 Reliably measure and capture a positive cast or image of patient / clients' appendage while correctly positioning the body part and if appropriate apply the necessary corrective force system.
- 19.5 Identify, prescribe and justify selection of appropriate materials and componentry in the fabrication of the prostheses or orthoses.
- 19.6 Construct the prostheses or orthoses using appropriate fabrication techniques in preparation for the initial fitting.
- 19.7 Fit the prostheses or orthoses to the patient using static and dynamic functional criteria established from the original assessment.

- 19.8 Evaluate the quality of the prostheses or orthoses fit to ensure the appropriate interface contouring, force application and trim lines.
- 19.9 Identify problems related to device fit and/or alignment and be able to suggest and implement appropriate correction.
- 19.10 Assess and solve prosthetic or orthotic problems as part of long term patient care.
- 19.11 Maintain accurate records of patient treatment and follow up as well as confidentiality of such information.
- 19.12 Communicate effectively with patient, co-workers, and other health care professionals in such a manner that will ensure the highest quality of service and reflect a professional attitude on the part of the student.
- 19.13 Educate the patient /client and/or caregiver on use, care and function of the prostheses or orthoses,
- 19.14 Understand the methodology of problem identification, problem solving in a process that includes all stake holders, with the patient at the centre.

**MPO-1<sup>st</sup> Year**

<b>COUR SE CODE</b>	<b>TITLE</b>	<b>THE ORY HRS</b>	<b>PRACTI CAL</b>	<b>TOT AL HRS</b>	<b>MAR KS THEO RY</b>	<b>MARKS PRACTI CAL</b>	<b>TOT AL MAR KS</b>	<b>CRE DIT POIN TS</b>
<b>MPO1 01</b>	Advance Lower & Clinical Gait Analysis	60	350	410	100	100	200	
<b>MPO1 02</b>	Advanced Lower Extremity Prosthetics & Biostatistic s	60	350	410	100	100	200	
<b>MPO1 03</b>	Research Methodolo gy & Biostatistic s	60	---	60	100	---	100	
<b>MPO1 04</b>	Mechatroni cs	60	---	60	100	---	100	
<b>MPO1 05</b>	Applied Biomechani cs & Kinesiolog y	60						
	Dissertation		220	220	---	---	---	
	<b>Total</b>	<b>300</b>	<b>920</b>	<b>1220</b>	<b>500</b>	<b>200</b>	<b>700</b>	

Note:1 Minimum Two Seminar Presentation, Two Journal Club, and Five Case Study presentation per candidate is mandatory.

2. There will no examination for dissertation in first year. The candidate will make research proposal as per the guidance of supervisor and get it approved by Research Review and Ethical Committee.

**MPO-2<sup>nd</sup> Year**

COUR SE CODE	TITLE	THE OTY HRS	PRACTI CAL	TOT AL HRS	MAR KS THEO RY	MARKS PRACTI CAL	TOT AL MAR KS	CRE DIT POIN TS
MPO2 01	Advanced Upper Extremity Prosthetics	600	200	260	100	100	200	
MPO2 02	Advanced Upper Extremity Orthotics	60	160	220	100	100	200	
MPO2 03	Advance Spinal Orthotics	60	200	260	100	100	200	
MPO2 04	Pedagogy in P&O Education & Administ ration, Manageme nt & Ethical Issues	80	---	80	100	---	100	
MPO2 05	Dissertatio n		400	400	---	200	200	
	<b>Total</b>	260	980	1220	400	500	900	

Note: Minimum Two Seminar Presentation, Two Journal Club, and Five Case Study presentation per Candidate is mandatory.

**20. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

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**MALWANCHAL UNIVERSITY, INDORE (M.P.)****ORDINANCE NO. 79****Establishment under M.P. Act No. 17 of 2007****POST GRADUATE DIPLOMA IN MANAGEMENT****(P.G.D.M.)****1. TITLE OF THE DEGREE:**

PGDM (Post Graduate Diploma in Management)

**2. COURSE & FACULTY:**

2.1 This ordinance shall be applicable to the Post Graduate Diploma in Management (abbreviated PGDM) of two years (4 Semester) duration. This course shall be run on Semester pattern system.

2.2 This course shall be run by the Faculty of Management.

**3. DURATION OF THE PROGRAM:**

3.1 The Post Graduate Diploma in Management (PGDM) shall be a fulltime Post-graduate Degree program of two academic years (four semesters).

3.2 There shall be at least fourteen weeks of teaching in every semester.

3.3 One hour of conduct in Lecturer (L) / Tutorial (T) / Practical (P) per week shall be equal to one credit as allotted in the respective schemes.

3.4 A candidate may provisionally continue to attend next higher year, even if, the result of qualifying year / semester has not been declared. However, subsequently if he/she is not able to clear qualifying semester examination, the candidate cannot claim any right on the basis of his/her provisional admission.

3.5 The maximum duration of the program shall be 4 (four) years. However, for one mercy attempt shall be applicable or as per University Policy.

**4. INTAKE & FEES:**

4.1 The intake for each of these Programs shall be decided by the Board Management of the University from time to time subject to the approval of the regulatory body.

4.2 Fees of these Programs will be decided by the Board of Management subject to the approval of regulatory body.

**5. ELIGIBILITY FOR ADMISSION:**

5.1 Candidates who have passed duly recognized following examination:-

5.1.1 Candidate should be a graduate in any discipline with at least 50% (minimum 45% for reserved categories) marks in aggregate or equivalent grade from any Indian University or foreign University or Institute recognized by the University as equivalent or any Open University. Reservation for SC/ST/OBC and other will be applicable as per the University/Government rules. However, the graduate degree should be with minimum three years study after passing (10+2) class examination of (10+2) scheme or equivalent (10+2+3) year system or any equivalent examination.

Note: However, candidate who is appearing or has appeared for final year/semester of any degree/ qualifying examination during the current academic session as a regular or a private candidate can also apply for admission on provisional basis, subject to the condition that the candidate must pass the qualifying examination with required percentage of marks or equivalent grade.

**5.2 Eligibility for Admission to NRI /other privileged Candidates:**

Non-resident Indian and other privileged candidate shall be eligible for admission to this course in accordance with the directives of Govt. of India and/or State Government.

**6. ADMISSION PROCEDURE:**

Admission under this course will be made as follows: The eligible candidates as specified in clause (5) above, should secure a place in the merit list prepared on the basis of academic credentials or through the University entrance test/Examination consisting of Aptitude Test/ Group Discussion, Personal Interview or through Counseling or the University may also use the score card of various competitive entrance test/ examination results of various Institute/ Board/ University/ other Professional Bodies/ Organizations or any other mode as decided by the AICTE/ UGC/ other relevant Regulatory Bodies from time to time or based on qualifying exam.

**7. SPECIALIZATION DISTRIBUTION:**

Admission to a particular stream/ specialization of PGDM Course/ Program shall be as decided by the University on the basis of either merit or counseling or personal interviews.

**8. MEDIUM OF INSTRUCTIONS AND EXAMINATIONS:**

The medium of instructions and examinations shall be English.

**9. ATTENDANCE REQUIREMENT:**

A candidate must have at least 75% attendance. Provided that in case of illness or because of other reasonable cause it shall be relaxed by the Vice Chancellor as admissible within applicable regulations or as per University Policy.

**10. COURSE STRUCTURE:**

10.1 The PGDM course in semester pattern shall consist of:

10.1.1 Such courses (papers) as prescribed by the University.

10.1.2 Such job assignments, internship, projects etc. as may be prescribed by the University/Department.

10.1.3 Such scheme of examination as prescribed by the University/Department from time to time.

10.1.4 It will also include co-curricular and extra-curricular activities as prescribed from time to time by the university/Department.

10.2 The course curriculum of the course shall be approved by the concerned Board of Studies and the Academic council of the University. The Academic council of the University on the recommendation of the concerned Board of Studies may change

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number of papers and / or marking scheme of the course after the due approval of Vice chancellor.

#### 11. **EXAMINATION:**

- 11.1 The subjects to be studied in different semesters of PGDM program shall be as per the schemes and syllabus, approved by the respective Board of Studies.
- 11.2 There shall be one University examination at the end of each semester. These examinations will be designated as follows:
  - 11.2.1 During first year: PGDM program - I & II semester.
  - 11.2.2 During second year: PGDM program - III & IV semester.
- 11.3 There will be full examination at the end of each semester consisting of end semester of theory and practical of all the subjects. Supplementary examination will not be conducted separately.
- 11.4 Re-totaling/Re-valuation is permitted in all the papers.

#### 12. **EXAMINATION SCHEME FOR PROMOTION TO HIGHER SEMESTER AND YEAR:**

A candidate who has been admitted in the PGDM program will be promoted to the higher class in accordance with the following rules:

- 12.1 For the award of degree minimum Cumulative Grade Point Average (CGPA) required is 5.0 and grade required is C.
- 12.2 To pass a particular subject of the program the minimum required grade is D. However, the candidate should also separately score minimum of grade 'D' in end semester examinations of theory and practical parts of the subject. For practical examinations at least one external examiner from outside the university shall always be there.
- 12.3 A candidate who fails to score minimum of grade D in more than two subjects (Theory and Practical of the same subject shall be treated as two subjects) in a particular year, shall not be admitted to the next higher year.
- 12.4 The result of Fourth and final semester shall be declared only if the candidates have fully cleared all the previous semesters.
- 12.5 If a candidate has passed all the subjects of the Program in fourth semester but has failed to score a minimum CGPA of 5.0 as per the requirement of rule 12.1 above, such a candidate shall be permitted to cover up the short fall in requisite grade point by reappearing in maximum of two theory papers chosen from subjects of any of the semesters in the ensuing examination.
- 12.6 Other than the provision of rule 12.5 above a candidate shall not be permitted to reappear, in the papers which he/she has cleared, for improvement of division/marks or for any other purpose.

#### 13. **AWARD OF CREDITS AND GRADES:**

- 13.1 Each Program, along with its weightage in terms of units and equivalent credits, shall be recommended by the concerned Board of Studies and shall be approved by the standing committee of Academic Council. Only approved programs can be offered during any semester.

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13.2 A student shall be continuously evaluated for his / her academic performance in a subject through tutorial work, practical, home assignment, mid-semester test, field work, seminars, quizzes, end-semester examinations and regularity, as proposed by respective Board of Studies and approved by standing committee of Academic Council of the University.

13.3 The distribution of weightage /marks for each component shall be decided by the respective of Board of Studies and approved by standing committee of Academic Council of the University subject to such stipulation as given under:

➤ **Theory Block**

▪ Quizzes, assignments and regularity	10%
▪ Mid – semester test -	20%
▪ End – semester examination-	70%

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Total	100%
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➤ **Practical Block**

▪ Lab work and performance, quizzes, Assignments and regularity -	40%
▪ End – semester examination-	60%

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Total	100%
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13.4 Practical training and project work shall be treated as practical subjects.

13.5 In each semester, the department will be required to conduct at least two mid semester tests for theory block.

13.6 Each student, registered for a program, shall be awarded grade by the concerned faculty / faculties for the specific subject/paper. The grades awarded to a student shall depend upon his continuous evaluation through performance in various examinations, assignments, quizzes, laboratory work, class work, mid semester test and regularity. The grades to be used and their numerical equivalents are as under:

**Credit Based Grading System**

Grade	% Marks range (Based on absolute marks system)	Grade Point	Description of performance
A+	91-100	10	Outstanding
A	81-90	9	Excellent
B+	71-80	8	Very Good
B	61-70	7	Good
C+	51-60	6	Average
C	41-50	5	Satisfactory
D	40 Only	4	Marginal
F	Below 40	0	Fail
I		0	Incomplete
W		0	Withdrawal



- 13.7 The Semester Grade Points Average (SGPA) and Cumulative Grade Point Average (CGPA) shall be calculated as under:-

$$SGPA = \frac{\sum_{i=1}^n c_i p_i}{\sum_{i=1}^n c_i}$$

Where  $c_i$  is the number of credits offered in the  $i^{th}$  subject of a Semester for which SGPA is to be calculated,  $p_i$  is the corresponding grade point earned in the  $i^{th}$  subject, where  $i = 1, 2, \dots, n$ , are the number of subjects in that semester.

$$CGPA = \frac{\sum_{j=1}^m SG_j NC_j}{\sum_{j=1}^m NC_j}$$

Here  $NC_j$  is the number of total credits offered in the  $j^{th}$  semester,  $SG_j$  is the SGPA earned in the  $j^{th}$  semester, where  $j = 1, 2, \dots, m$ , are the number of semesters in that program.

14. **CONDONATION OF DEFICIENCY:**

The Grace marks shall be allowed according to the University Policy.

15. **AWARD OF DIVISION:**

Division shall be awarded only after the fourth and final semester examination based on performance of the candidate for all the two years as per following details.

CGPA Score	Divisions
$7.5 \leq CGPA$	First Division With Honours
$6.5 \leq CGPA < 7.5$	First Division
$5.0 \leq CGPA < 6.5$	II Division

16. **MERIT LIST:**

Merit list of first ten (10) candidates in the order of merit shall be declared by the University only after the main examination of the fourth and final semester for PGDM program, on the basis of the integrated performance of all the Two years. The merit list shall include the first ten candidates securing at least first division and passing all semesters in single attempts.

17. **CANCELLATION OF ADMISSION:**

Admission of a student may be cancelled under following circumstances.

- 17.1 At any stage, if student is not found qualified, for the Program, as per government norms/ guidelines or the eligibility criteria prescribed by the University.
- 17.2 Failing to complete the program within six years of commencement of the program.
- 17.3 Involvement in gross indiscipline in the Institute / University.
- 17.4 He/ She is found to have produced false/ forged documents or found to have used unfair means to secure admission.

18. **GENERAL:**

- 18.1 The admission to the Courses shall be governed in accordance and provisions with the Rules/Directives of UGC/AICTE/ relevant Regulatory Body or any other competent Authority of the Govt. of India/ State Government as amended time to time.

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- 18.2 In matters of admission, attendance, examinations and in all other matters not provided in this ordinance, the courses shall be governed by the provisions of the relevant ordinances of the same in the University so far as they are not inconsistent with the provisions of this ordinance.
- 18.3 In case of any dispute/ambiguity, the ruling of the Vice Chancellor shall be final. However on the recommendations of the Academic Council the Vice-Chancellor shall be competent to change the System/Pattern of the examination.
- 18.4 The various specializations in the PGDM programs in the Faculty of Management Studies shall include Marketing, Finance, Human Resources, Information Technology, Banking & Insurance, Agri-Business, Manufacturing & Production, Industrial Management, Advertising and public relation, Energy Management, Communication & Media Management, Entrepreneurship, Materials Management, Logistic & Supply Chain Management, International Business, Retail Management, Rural Management, Tourism Management, Hospital Administration, NGO Management, Pharmaceutical Management, Telecom Management, Operation Research, Event Management, Infrastructure Management etc.
- 18.5 The above course shall run on all possible modes of imparting education including the use of latest innovative technologies like- on-line, e-learning, face-to-face, through webinar etc.
- 18.6 This program is offered by the Faculty of Management recommended by the concerned Board of Studies and after approval of Academic Council and Board of Management of the University.
- 18.7 In future, more branches/ specializations/ courses/ programs of can also be offered, keeping in view of new innovations, thrust areas of Government policies and demand of the industry/ society shall run under this ordinance, on the recommendations of the concerned Board of Studies from time to time, by the University, in its various faculties/ departments/ centers/ institutes located in University campus.
- 18.8 In case of any dispute the matter shall be decided under the Jurisdiction of District Court, Indore M.P.
- 18.9 Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**ORDINANCE NO. 80**  
**Establishment under M.P. Act No. 17 of 2007**  
**B.SC. MULTIMEDIA & ANIMATION (B.SC.-M&A)**

B.Sc. Multimedia and Animation Programme shall be of three academic years. Each year shall be divided into 2 semesters. Thus the programme shall be comprise of 6 semesters.

**1. INTAKE & FEES:**

- 1.1 The intake for each of these Programs shall be decided by the Board of Management of the University from time to time subject to the approval of the regulatory body.
- 1.2 Fees of these Programs will be decided by the Board of Management subject to the approval of regulatory body.

**2. ACADEMIC YEAR:**

There will be two academic cycles every year, one from July to June and second from January to December.

**3. ELIGIBILITY CRITERIA FOR ADMISSION:**

Candidates possessing following qualifications shall be eligible for admission.

- 3.1 Candidate should have passed the 10+2 examination or any other equivalent examination conducted by State/Central Board of Secondary Education or any other State board/ university with any subject.
- 3.2 Merit prepared on the basis of CGPA or marks obtained in the qualifying examination and/or personal interview conducted by the University.
- 3.3 The last date for admission will be as notified by the University.
- 3.4 Reservation: As per guideline of M.P. State Government / Statutory body of the University.
- 3.5 Mode of Selection: On the basis of the merit in qualifying examination and policy decided by the competent authority / statutory body.
- 3.6 Eligibility for Admission to NRI /other privileged Candidates: Non-resident Indian and other privileged candidate shall be eligible for admission to this course in accordance with the directives of Govt. of India and/or State Government.

**4. DURATION OF PROGRAM:**

- 4.1 There shall be at least fourteen weeks of teaching in every semester.
- 4.2 One hour of conduct in Lecturer (L) / Tutorial (T) / Practical (P) per week shall be equal to one credit as allotted in the respective schemes.
- 4.3 A candidate may provisionally continue to attend next higher year, even if, the result of qualifying year / semester has not been declared. However, subsequently if he/she is not able to clear qualifying semester examination, the candidate cannot claim any right on the basis of his/her provisional admission.
- 4.4 The maximum duration of the program shall be six years. However, for one mercy attempt shall be applicable or as per University policy.

**5. MEDIUM OF INSTRUCTION:**

English or Hindi shall be medium of instruction and examination/dissertation.

**6. ATTENDANCE:**

A student who has 75% or more attendance in each theory/ practical in a semester shall be eligible to appear in university examination or as per University Policy.

**7. EXAMINATIONS:**

- 7.1 The subjects to be studied in different semesters of B.Sc. -M&A program shall be as per the schemes and syllabus, approved by the respective Board of Studies.
- 7.2 There shall be one University examination at the end of each semester. These examinations will be designated as follows:
  - During first year: B.Sc.-M&A - I & II semester.
  - During second year: B.Sc.-M&A - III & IV semester.
  - During third year: B.Sc.-M&A - V & VI semester.
- 7.3 There will be full examination at the end of each semester consisting of end semester of theory and practical of all the subjects. Supplementary examination will not be conducted separately.
- 7.4 Re-totaling/Re-valuation is permitted in all the papers.

**8. EXAMINATION SCHEME FOR PROMOTION TO HIGHER SEMESTER AND YEAR:**

A candidate who has been admitted in the B.Sc.-M&A will be promoted to the higher class in accordance with the following rules:

- 8.1 For the award of degree minimum Cumulative Grade Point Average (CGPA) required is 5.0 and grade required is C.
- 8.2 To pass a particular subject of the program the minimum required grade is D. However, the candidate should also separately score minimum of grade 'D' in end semester examinations of theory and practical parts of the subject. For practical examinations at least one external examiner from outside the university shall always be there.
- 8.3 A candidate who fails to score minimum of grade 'D' in more than two subjects (Theory and Practical of the same subject shall be treated as two subjects) in a particular year, shall not be admitted to the next higher year.
- 8.4 The result of Sixth and final semester shall be declared only if the candidates have fully cleared all the previous semesters.
- 8.5 If a candidate has passed all the subjects of the Program in sixth semester but has failed to score a minimum CGPA of 5.0 as per the requirement of rule 10.1 above, such a candidate shall be permitted to cover up the short fall in requisite grade point by reappearing in maximum of two theory papers chosen from subjects of any of the semesters in the ensuing examination.
- 8.6 Other than the provision of rule 10.5 above a candidate shall not be permitted to reappear, in the papers which he/she has cleared, for improvement of division/marks or for any other purpose.

**9. AWARD OF CREDITS AND GRADES:**

- 9.1 Each Program, along with its weightage in terms of units and equivalent credits, shall be recommended by the concerned Board of Studies and shall be approved by the standing committee of Academic Council. Only approved programs can be offered during any semester.
- 9.2 A student shall be continuously evaluated for his / her academic performance in a subject through tutorial work, practical, home assignment, mid-semester test, field work, seminars, quizzes, end-semester examinations and regularity, as proposed by respective Board of Studies and approved by standing committee of Academic Council of the University.
- 9.3 The distribution of weightage /marks for each component shall be decided by the respective of Board of Studies and approved by standing committee of Academic Council of the University subject to such stipulation as given under:

**➤ Theory Block**

▪ Quizzes, assignments and regularity	10%
▪ Mid – semester test -	20%
▪ End – semester examination-	70%

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Total	100%
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**➤ Practical Block**

▪ Lab work and performance, quizzes, Assignments and regularity -	40%
▪ End – semester examination-	60%

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Total	100%
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- 9.4 Practical training and project work shall be treated as practical subjects.
- 9.5 In each semester, the department will be required to conduct at least two mid semester tests for theory block.
- 9.6 Each student, registered for a program, shall be awarded grade by the concerned faculty / faculties for the specific subject/paper. The grades awarded to a student shall depend upon his continuous evaluation through performance in various examinations, assignments, quizzes, laboratory work, class work, mid semester test and regularity. The grades to be used and their numerical equivalents are as under:

**Credit Based Grading System**

Grade	% Marks range (Based on absolute marks system)	Grade Point	Description of performance
A+	91-100	10	Outstanding
A	81-90	9	Excellent
B+	71-80	8	Very Good
B	61-70	7	Good
C+	51-60	6	Average
C	41-50	5	Satisfactory
D	40 Only	4	Marginal
F	Below 40	0	Fail
I		0	Incomplete

W		0	Withdrawal
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- 9.7 The Semester Grade Points Average (SGPA) and Cumulative Grade Point Average (CGPA) shall be calculated as under:

$$SGPA = \frac{\sum_{i=1}^n c_i P_i}{\sum_{i=1}^n c_i}$$

Where  $c_i$  is the number of credits offered in the  $i^{th}$  subject of a Semester for which SGPA is to be calculated,  $p_i$  is the corresponding grade point earned in the  $i^{th}$  subject, where  $i=1,2,\dots,n$ , are the number of subjects in that semester.

$$CGPA = \frac{\sum_{j=1}^m SG_j NC_j}{\sum_{j=1}^m NC_j}$$

here  $NC_j$  is the number of total credits offered in the  $j^{th}$  semester,  $SG_j$  is the SGPA earned in the  $j^{th}$  semester, where  $j=1,2,\dots,m$ , are the number of semesters in that program.

#### 10. CONDONATION OF DEFICIENCY:

One grace mark will be given to the candidate who is failing/missing distinction/missing first division by one mark, on behalf of the Vice-Chancellor in the B.Sc.-M&A examination or as per University policy.

#### 11. AWARD OF DIVISION:

CGPA Score	Divisions
$7.5 \leq CGPA$	First Division With Honours
$6.5 \leq CGPA < 7.5$	First Division
$5.0 \leq CGPA < 6.5$	II Division

#### 12. MERIT LIST:

Merit list of first ten (10) candidates in the order of merit shall be declared by the University only after the main examination of the sixth and final semester for B.Sc. -M&A program, on the basis of the integrated performance of all the Three years. The merit list shall include the first ten (10) candidates securing at least first division and passing all semesters in single attempts.

#### 13. CANCELLATION OF ADMISSION:

Admission of a student may be cancelled under following circumstances

- 13.1 At any stage, if student is not found qualified, for the Program, as per government norms/ guidelines or the eligibility criteria prescribed by the University.
- 13.2 Failing to complete the program within six years of commencement of the program.
- 13.3 Involvement in gross indiscipline in the Institute / University.
- 13.4 He/ She is found to have produced false/ forged documents or found to have used unfair means to secure admission.

#### 14. GENERAL:

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)**  
**ORDINANCE NO. 81**  
**Establishment under M.P. Act No. 17 of 2007**  
**CERTIFICATE COURSES**

This ordinance shall provide regulation of MALWANCHAL UNIVERSITY running Certificate course program in various subjects/ departments of Medicine, Dentistry, Nursing, Physiotherapy, Occupational therapy and Miscellaneous.

**1. SHORT TITLE AND COMMENCEMENT:**

Keeping in view the explosion of knowledge in modern medicine, the University introduces a series of Certificate courses in different disciplines (speciality or subspeciality), wherein suitable candidates will be imparted training in the concerned area. Through this Certificate courses, we hope to effectively give training to bring about change in the communities through better clinical practice.

The Courses shall be called as “CERTIFICATE COURSES” of the MALWANCHAL UNIVERSITY Indore, M.P.

The Regulations framed are subject to modification from time to time by the University Academic Board/apex body from time to time.

**2. AIMS & OBJECTIVE:**

The main aim of this certificate courses is to expose the eligible candidates to newer methods of skill oriented program in different disciplines. The program of study leading to career oriented certificate courses of MALWANCHAL UNIVERSITY shall have the status of Add-on skill oriented programs.

**3. GENERAL PROVISIONS:**

- 3.1 The various trainings in certificate courses cannot be registered as qualifications by regulatory bodies.
- 3.2 These training must be rendered to teach some Skill & develop competence in different disciplines the skill.
- 3.3 Candidates registering in these courses shall have to complete the predetermined period of training. In case the candidate leaves in between the certificate will not be issued.
- 3.4 The concerned department will provide a structured training program.
- 3.5 There will be a formal entrance examination conducted by University to pursue the mentioned Certificate courses.
- 3.6 Candidate will have to pay fees for these certificate courses which will be mentioned in a combined ordinances for University fees & structure (Ordinance no - 08).
- 3.7 Candidates involved in direct patient care will have to have regulatory approvals. Like they must be registered with MP State Medical Council with a valid registration number & additional degrees must be registered.

**4. LIST OF VARIOUS CERTIFICATE COURSES OFFERED BY MALWANCHAL UNIVERSITY WITH ELIGIBILITY CRITERIA AND DURATION:**

**4.1 POST-DOCTORAL CERTIFICATE COURSE:**

Course Name	Eligibility	Subject of Specialization	Duration
PDCC in Cardiac-Anesthesia	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Neuro-Anesthesia	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Organ Transplant Anaesthesia	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Paediatrics Endocrinology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Critical Care Medicine	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Paediatric Gastroenterology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Laboratory Immunology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Infectious Diseases	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Nuclear Nephrology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Renal Pathology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Gastro-Radiology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Neuro-Radiology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Aphaeresis Technology and Blood Component Therapy	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Pain Management	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Haemato-Oncology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC Paediatrics Endocrinology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Paediatric ENT	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Interventional Radiology	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year
PDCC in Spine Surgery	Post MD/MS/DNB/DMRD in the required specialty	Medicine	One year



**4.2 BASIC CERTIFICATE-COURSES:**

Course Name	Eligibility	Subject of Specialization	Duration
<b>Medical</b>			
Certificate Course in Paediatric Respiratory Disorders	MD /DCH/DNB Paediatrics Or Equivalent from recognized institute	Medicine	6 Months
Certificate Care in Pulmonary Critical Care	MD/DNB Medicine Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Basic Infertility Management, including Endoscopy	MS/DNB (obst & Gyn.) or DGO Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Benign Hematology	MD (Pathology) / MD (Gen. Medicine) /DCP/DNB Or Equivalent from recognized institute	Medicine	12 Months
Certificate Course in Clinical Nutrition	Bachelors or Master's Degree from Medicine Nursing , physiotherapy, dietetics, Public health professionals. Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Critical Care Dialysis	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Hypertension Management	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Diabetic Foot Surgery	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Emergency Medical Services	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Epidemic Management	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Health Insurance	MBBS; BAMS; BHMS; BDS, BPTth, BOTth, B. Sc (Nursing), BPO, M. Sc (Med) Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Hepatology	MD (General Medicine) Or Equivalent from recognized institute	Medicine	6 Months

Certificate Course in Clinical Hematology	MD (General Medicine) Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Neonatology	MD (General Medicine) Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in High Risk Obstetrics	MD/DGO/DNB(Obs & Gyn.) Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Human Genetics ( Certificate Course in Human Genetics)	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Hyperbaric Medicine and Basic Wound Management	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Immunization	D C H , MBBS, BDS, BAMS, BUMS, BHMS.	Medicine	6 Months
Certificate Course in Infection Prevention & Control	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Intensive Cardiac Care	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Intensive Care in Obstetrics	MD/DGO/DNB(Obs & Gyn.) Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Laser Surgery in Urology	Post graduate in surgery M.S. or D.N.B.	Medicine	6 Months
Certificate Course in Medical Genetics	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Neonatal Intensive Care	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Neonatology	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Operation Theater Technology	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Radiography Technology	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Reconstructive Urology	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Regional Anaesthesia	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from	Medicine	6 Months

	recognized institute		
Certificate Programme in Hair Restoration	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
International Postgraduate Paediatric Certificate (IPPC)	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Postgraduate Training Course in Colposcopy	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Training Programme on HIV & AIDS	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Training Programme on Medical Rehabilitation	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Basic Life Support	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Pain Management	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Patient Safety	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course in Disaster Management	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
Certificate Course for Clinicians in Medico Legal Practices	MBBS/ BAMS/ BHMS/ BUMS Or Equivalent from recognized institute	Medicine	6 Months
<b>Physiotherapy</b>			
Certificate Course in Sports Physiotherapy	BPT	Physiotherapy	12 Months
<b>Dental</b>			
Post Graduate Certificate Course in Oral Implantology	BDS/MDS	Dental	12 Months
<b>Nursing</b>			
Certificate Course in Cardiovascular and Thoracic Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Oncology Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Renal Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months

Certificate Course in Wound Care Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Child Health Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Medical Surgical Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Community Health Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Obstetrics and Gynecology Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Psychiatry Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Critical Care Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Nursing Practitioner	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Orthopedic and Rehabilitation	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Neonatal Care Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Oncology Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Mental Health Nursing	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
Certificate Course in Nursing Administration	B.Sc./M.Sc. Nursing OR Equivalent from recognized institute	Nursing	6 Months
<b>Miscellaneous</b>			
Certificate Course in NABH	Bachelors or Master's Degree from Medicine, Dental, Nursing, physiotherapy, dietetics, Public health professionals, MBA/ BBA in H.A. Or Equivalent from recognized	Miscellaneous	12 Months

	institute		
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**5. ENTRY EXAMINATIONS FOR CERTIFICATE COURSES:**

- 5.1 There shall be Entrance Examination which will be conducted by Controller of Examinations as per University norms.
- 5.2 Entrance exam will be multiple choice type questions with one paper of 100 questions. The questions will be prepared from any External source as per University policy. Candidates will be selected in respective certificate courses as per the merit list of theory exam. No interview will be conducted.

**6. EXIT EXAM FOR CERTIFICATE COURSES:**

- 6.1 For appearing in the exit examination the candidate should have an attendance of least 80% to be certified by the course coordinator and Head of Department. The course coordinator and HOD have also to certify that the candidate has learnt the skills for which the candidate had been enrolled.
- 6.2 There will be no theory exam.
- 6.3 For Practical examination there shall be two examiners. One internal & one external examiner. To pass the exit exam, candidate has to secure minimum 50% marks in practical examination.
- 6.4 At the end of examination the result will be declared by the controller of Examination and will be displayed at University website/as decided by University norms.
- 6.5 If the candidate fails in the exam, then he/she shall be allowed to appear in the next two regular exams maximally and the Examination fee again will be deposited each time by the candidate.

**7. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)****ORDINANCE NO. 82****Establishment under M.P. Act No. 17 of 2007****BACHELOR OF VOCATIONAL STUDIES (B.VOC.)****(3-Year Program)****1. NAME OF PROGRAM & APPLICABILITY**

- 1.1 3- Year Bachelor of Vocational Education (B.Voc.) Degree Program shall be quoted simply 'Program' hereafter in this ordinance, subject to the recommendation of the respective Board of Studies and as per norms of the concerned regulatory authority. The Board of Studies is authorized to recommend further additions/ alterations in this Ordinance with the approval of MPPURC and Government of M.P.
- 1.2 Name of Faculty Board of Studies is School of Vocational Studies and the Department shall be Department of Vocational Studies.
- 1.3 The degree will include areas of study/subjects/specializations as recommended by the Academic Council and concerned Board of Studies of the University.

**2. ELIGIBILITY FOR ADMISSION**

- 2.1 The minimum qualification for admission for admission shall be 10+2 pass from a recognized Board (PCM is compulsory for Engineering courses, and stream for Non-Engineering Courses).
- 2.2 Candidate who has qualified Certificate Level 4 from any Recognized Technical/Skill/Vocational board is also eligible for admission to relevant B.Voc. course.
- 2.3 Not with standing anything contained in the above-mentioned rules, the eligibility criteria will be as decided by the Board of Management and the Academic Council from time to time, in accordance with the concerned regulatory authority/University.
- 2.4 Admission shall be according to the criteria made by the Admission Committee and the concerned regulatory authority.

**3. CRITERIA FOR SELECTION:**

Admission shall take place on the criteria of Regulatory body Norms/University from time to time

**4. INTAKE & FEES:**

- 4.1 The intake for each of these Programs shall be decided by the Board of Management of the University from time to time subject to the approval of the regulatory body.
- 4.2 Fees of these Programs will be decided by the Board of Management subject to the approval of regulatory body.

**5. COMMENCEMENT AND DURATION**

- 5.1 Scheduled period for the completion of B.Voc. Program is 3 years.
- 5.2 Maximum duration of Program completion is 6 years or as per University Policy.
- 5.3 Each Academic year shall comprise of 2 semesters each.
- 5.4 The Programs shall generally commence in July/August every year. Other than under Exceptional circumstances.

- 5.5 Each semester shall be spread over not less than 90 teaching days.
- 5.6 Ten day vacation as semester break shall be granted to the students between two semesters.

**6. MEDIUM OF INSTRUCTION**

Medium of instruction and examinations would be English/Hindi as per the choice filled by the student, in accordance to the guidelines prescribed by regulatory authority.

**7. ATTENDANCE**

Regular students, to be eligible to appear in the University examination, are required to attend a minimum of 75% theory classes and 75% practical classes, in each semester or as per University policy.

**8. EXAMINATIONS:**

- 8.1 Internal Assessment shall be based on class work/assignments/attendance.
- 8.2 Mid Sem or Half yearly examination : One half yearly exam in case of yearly exam and two mid semester examinations shall be conducted in each semester and marks of the best of two will be considered for the final result of that semester.
- 8.3 University Examination shall be conducted as per Ordinance No. 04.

**9. ASSESSMENT SYSTEM**

The University can decide on the grade or percentage of marks required to pass in a course and also the CGPA required to qualify for a degree as per regulatory authority guidelines, taking into consideration, the recommendations of the concerned statutory professional council.

**10. DEGREE/GRADE SHEET**

- 10.1 Student shall be declared eligible for the award of the three year Degree, if he/she fulfills all requirements set by Regulatory Authority.
- 10.2 Students shall be eligible for award of Degree subject to passing the program and all courses within the stipulated time period.

**11. GENERAL INSTRUCTIONS**

- 11.1 Board of Management of the University shall be the competent authority to make decisions on the matters which are not covered in this ordinance.
- 11.2 The subject to be studied in the different semesters includes industrial training, projects, etc. shall be as per the University schemes, approved by Board of Studies and the board of Management of the University and in accordance with the norms of concerned regulatory authority.
- 11.3 Not with standing anything stated in this Ordinance for any unforeseen issues arising and not covered by this Ordinance or in the event of differences of interpretation, the Vice- Chancellor may take a decision after obtaining, if necessary the opinion/advice of a Committee, consisting of the Principal/Dean of the concerned Department. The decision of the Vice-Chancellor shall be final.
- 11.4 The Reservation of SC/ST/Other category candidates shall be applicable as per the norms of the State Government of Madhya Pradesh and/or the Government of India.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)****ORDINANCE NO. 83****Establishment under M.P. Act No. 17 of 2007****MASTER OF VOCATIONAL STUDIES (M.VOC.)****(2-Year Program)****1. NAME OF PROGRAM & APPLICABILITY**

- 1.1 2- Year Master of Vocational Education (M.Voc.) Degree Program shall be quoted simply 'Program' hereafter in this ordinance, subject to the recommendation of the respective Board of Studies and as per norms of the concerned regulatory authority. The Board of Studies is authorized to recommend further additions/ alterations in this Ordinance with the approval of MPPURC and Government of M.P.
- 1.2 Name of Faculty/ Board of Studies Vocational Studies and the Department shall be Department of Vocational Studies.

**2. ELIGIBILITY FOR ADMISSION:**

- 2.1 Candidates possessing following minimum qualification shall be eligible for admission:  
B.VOC/Graduate in any discipline from any recognized University, with minimum marks as prescribed by concerned regulatory authority/University.
- 2.2 Not with standing anything contained in the above-mentioned rules, the eligibility criteria will be as decided by the Board of management and the Academic Council from time to time, in accordance with the concerned regulatory authority.
- 2.3 Admission shall be according to the criteria made by the Admission Committee and the concerned regulatory authority/University.

**3. CRITERIA FOR SELECTION:**

Admission shall take place on the criteria of Regulatory body Norms/University from time to time.

**4. INTAKE & FEES:**

- 4.1 The intake for each of these Programs shall be decided by the Board of Management of the University from time to time subject to the approval of the regulatory body.
- 4.2 Fees of these Programs will be decided by the Board of Management subject to the approval of regulatory body.

**5. COMMENCEMENT AND DURATION:**

- 5.1 Scheduled period for the completion of M.VOC. Program is 2 years.
- 5.2 Maximum duration of Program completion is 4 years or as per University Policy.
- 5.3 Each Academic year shall comprise of 2 semesters each.
- 5.4 The Programs shall generally commence in July/August every year. Barring exceptional circumstances.
- 5.5 Each semester shall be spread over not less than 90 teaching days.
- 5.6 Ten day vacation as semester break shall be granted to the students between two semesters.

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**6. MEDIUM OF INSTRUCTION:**

Medium of instruction and examinations would be English/Hindi as per the choice filled by the student, in accordance to the guidelines prescribed by regulatory authority.

**7. ATTENDANCE:**

Regular students, to be eligible to appear in the University examination, are required to attend a minimum of 75% theory classes and 75% practical classes, in each semester or as per University policy.

**8. Examinations**

- 8.1 Internal Assessment shall be based on class work/assignments/attendance.
- 8.2 Mid. Sem. or Half yearly examination: One half yearly exam in case of yearly exam and two mid semester examinations shall be conducted in each semester and marks of the best of two will be considered for the final result of that semester.
- 8.3 University Examination shall be conducted as per Ordinance No. 04

**9. ASSESSMENT SYSTEM:**

The University can decide on the grade or percentage of marks required to pass in a course and also the CGPA required to qualify for a degree as per regulatory authority guidelines, taking into consideration, the recommendations of the concerned statutory professional council or as per university examination guidelines.

**10. DEGREE/GRADE SHEET**

- 10.1 Student shall be declared eligible for the award of the three year Degree, if he/she fulfills all requirements set by Regulatory Authority.
- 10.2 Students shall be eligible for award of Degree subject to passing the program and all courses within the stipulated time period.

**11. GENERAL INSTRUCTIONS**

- 11.1 Board of Management of the University shall be the competent authority to make decisions on the matters which are not covered in this ordinance.
- 11.2 The subject to be studied in the different semesters includes industrial training, projects, etc. shall be as per the University schemes, approved by Board of Studies and the board of Management of the University and in accordance with the norms of concerned regulatory authority.
- 11.3 Not with standing anything stated in this Ordinance for any unforeseen issues arising and not covered by this Ordinance or in the event of differences of interpretation, the Vice- Chancellor may take a decision after obtaining, if necessary the opinion/advice of a Committee, consisting of the Principal/Dean of the concerned Department. The decision of the Vice-Chancellor shall be final.
- 11.4 The Reservation of SC/ST/Other category candidates shall be applicable as per the norms of the State Government of Madhya Pradesh and/or the Government of India.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)**  
**ORDINANCE NO.84**

**Establishment under M.P. Act No. 17 of 2007**  
**ELECTRO HOMEOPATHY**

University shall impart courses in certificate and diploma skills development courses for gainful employment generation to rural/urban youth. The course will lead for the award of diploma and certificates. The certificate and diploma with sound knowledge shall develop a candidate as a profitable entrepreneur.

**1. Duration of Course:**

Certificate course in Electro-homeopathy - 1 year

Diploma in Electro-homeopathy- 2 year

**2. Number of Seats And Fees:**

The Fees for each courses shall be decided by Board of Management of university and the number of seats in each course will be as per statute 28

**3. Eligibility**

Minimum qualification for admission to the course shall be the High School Certificate/Higher Secondary School Certificate Examination (10+2) conducted by M.P. Board of Secondary Education of an equivalent examination from a recognized Board.

Lateral Entry:

Certificate course in Electro homeopathy for Diploma

**4. Admission procedure:-**

Fill the form.

Admission under these Courses will be made as follows;

- a) The University will issue admission notification in news papers, the University's website, notice Board of the University and publicity in media before the start of every cycle. Hoardings will be used for attracting Students and other stake holders.
- b) List of candidates provisionally selected for admission / shortlisted based on merit will be displayed on the notice Board of the University/ University website/ or the student will be informed directly of their admission.
- c) The candidates whose results of the qualifying exam / interview are awaited can also apply who will be admitted provisionally.

Such candidates however must produce the previous year mark sheet/school/ college certificates as a proof of required eligibility criteria. The candidates so admitted shall have to be present mark sheet of the qualifying examination within a month of the due date of admission the provisional admission granted to him will be cancelled.

- d) The application from may be rejected due to any of the following reasons:-
- The candidate does not fulfill the eligibility conditions.
  - The prescribed fee is not enclosed.
  - The application from is not signed by the candidate and his/her parent guardian, wherever required.
  - Supporting documents for admission are not enclosed.
- e) Enrollment/Registration number will be assigned to the student by the University after verification & submission of all the necessary document/fees.
- f) Admission rules as framed by the University shall be applicable for all admission from time to time.

#### 5. Academic Year:

There will be two academic cycles every years, one from July to June and January to December.

#### 6. Examination & Attendance:-

- a) Each Student shall have to appear in the examination of theory/ practical/workshop practice and continuous internal assessment. The internal assessment will be held in the manner prescribed from time to time by the University.
- 30 percent marks of each paper will be earmarked of internal assessment (for each semester, there will be two separate evaluations of 15 marks each.)
  - Main examination will carry 70 percent marks.
  - For passing the examination the candidate that be required to secure at least 36% marks in University examination separately in the term end theory, practical and Internal Assessment in each on the prescribed paper and aggregate of 40% marks wherever applicable.

- There will be an external examiner to evaluate the project report. The minimum passing marks for project work will be 50%

- b) Each certificate program shall have one theory and one practical paper. The Diploma course may have thane one theory/practical papers that are decided by the concerned Board of Studies for each course.  
Examination & Attendance for Candidates of this Course will be as per Ordinance of this University there will be a final Examination for theory & practical. The theory will consist of 70% & Practical 30% of total marks.

**7. Course:** - As per decide by Academic Council of University.

**8. Medium of Instruction:**

Medium of Instruction will be in English.

**9. Award of Certificate/Diploma:-**

Candidates have to score 33% passing mark in theory & Practical separately to qualify for Certificate/Diploma. Candidate securing 75% marks will be graded as excellent, 60 to 75% very good, 45% to 60 good and 33 to 45% below, 33% marks will be treated as failed in certificate/Diploma course.

**MALWANCHAL UNIVERSITY, INDORE (M.P.)**  
**ORDINANCE NO.85**

**Establishment under M.P. Act No. 17 of 2007**

**BACHELOR OF HOMEOPATHIC  
MEDICINE AND SURGERY (B.H.M.S.)**

**1. Aims & Objective**

**1.1 AIMS -**

1. The curriculum should enable the students to play the role of a competent Homoeopathic Physician and fulfill the responsibilities of a medical graduate in both rural and urban environment confidently and effectively.
2. Emphasis in the course should be to demonstrate to the students:
  - a. Application of Homoeopathic principles.
  - b. Scope and limitations of Homoeopathy.
  - c. Role of Homoeopathy in the present and future context.
  - d. Skills in clinical diagnosis.
  - e. Techniques of individualization.
  - f. Evolution of constitutional totality.
3. The educational experience should result in appreciation of the effects of social, psychological, cultural, economical and environmental factors on health and resolution of these with a human concern.
4. Teachers shall expand their role from mere imparting of knowledge to that of facilitator, motivator and role model for students learning and practice during the entire course.
5. The teaching programme should facilitate the development of personal characteristics and attitude acquired for professional life such as personal integrity, sense of responsibility and dependability and ability to relate to or show concern for other individuals and society.

**1.2 OBJECTIVE:-**

Undergraduate programme, the medical students shall:

1. **Be competent :-**
  - a) In diagnosis and management of common health problems of individual and the community.
  - b) Practice promotive, preventive, curative and rehabilitative medicine in respect to the commonly encountered health problems.
  - c) work in a variety of health care settings commensurate with his/her position as a member of the health team at the primary, secondary or tertiary levels, using his/her clinical skills.
2. **Be able to:-**
  - a) Appreciate the social-psychological, cultural, economic and environmental factors affecting health and disease. Develop humane attitude towards the discharging of one's professional responsibilities. Have personal characteristics and attitude for professional life such as personal integrity, sense of responsibility and dependability and ability to relate to or show concern for other individuals.
  - b) Identify community health problems and learn to work to resolve these by designing and instituting corrective steps and evaluating outcome of such measures.
  - c) Work as a leading partner in health care teams and acquire proficiency in communication skills.
3. Possess the attitude for continued self-learning and to seek further expertise or to pursue research in any chosen area of medicine.
4. Be familiar with the basic factors which are essential for the implementation of the National Health Programmes including practical aspects of the following:
  - I. Family Welfare and Maternal and Child Health (MCH)
  - II. Sanitation and water supply

- III. Prevention and control of communicable and non-communicable diseases
- IV. Immunization
- V. Health education
- VI. National Health Mission.
- VII. Acquire basic management skill in the area of human resources, materials
- VIII. And resources management related to health care delivery.

## **2. Course Structure:-**

### **2.1 Academic Qualification Criteria**

- A. A candidate for being eligible for admission to the BHMS Degree Course to the Homoeopathic Medical College affiliated to this University:  
Candidates must have passed in the subject of Physics, Chemistry, Biology, and English individually and must have obtained a minimum of 50%. Marks taken together in Physics, Chemistry and Biology at the qualifying Examination mentioned above for unreserved candidates and 50%, marks in respect of the schedule cast, Schedule tribes and other backward classes.
- B. The Candidate with benchmark disabilities as specified under the Rights of Persons with Disability Act, 2016 the minimum qualifying marks in qualifying examination in Physics, Chemistry and Biology shall be 45% for General Category and 40% for schedule cast, Schedule tribes and other backward classes.
- C. No candidate shall be admitted to B.H.M.S. Degree Course unless he has attained the age of 17 years on or before the 31<sup>st</sup> December of this admission in the first year of the course and not older than the age of 25 on or before the 31<sup>st</sup> December of the year of admission in the first year of the Course. Provided that the upper age limit may be relaxed by 5 years to the Schedule Cast, Schedule tribes other backward classes and physically handicapped candidates.
- D. There should be Uniform entrance examination to all medical institution at the Undergraduate level, namely the National Eligibility Entrance Test for admission to undergraduate course in each Academic year shall be conducted by an authority designated by the Central Government.
- E. In order to be eligible for admission to Undergraduate course for an academic year, it shall be necessary for a candidate to obtained minimum of marks at 50<sup>th</sup> percentile in the National Eligibility Entrance test for Undergraduate course held for the said academic year. Provided that in respect of -
  - i. Candidates belonging to the Schedule castes, Schedule Tribes and other backward classes the minimum marks shall be at 40 percentile.
  - ii. Candidates with benchmark disabilities specified under the rights of Persons with Disabilities Act, 2016 the minimum mark shall beat 45<sup>th</sup> percentile for General category and 40<sup>th</sup> percentile for the Schedule Cast, Schedule tribes other backward classes.

**2.2** The seat matrix for admission in the Government, Government-aided Institutions and Private Institutions shall be fifteen percent for the all India quota and eighty-five percent for the States and Union territories quota/as per prevail rules..

**2.3** The medium of instruction for the course of B.H.M.S. shall be English.

**2.4 Admission to the First B.H.M.S Course shall be done by 1<sup>st</sup> August decided by the Apex Body in each Academic year.**

**2.5 Phase-wise Distribution & Timing:-**

1. The training period of 4½ years shall be divided into four years as:

- a) **First B.H.M.S. (Annual Pattern I Professional)** consisting of the subjects of: Human Anatomy, Histology and Embryology, Human Physiology including Bio-Chemistry, Homoeopathic Pharmacy, Homoeopathic Materia Medica, Organon of Medicine including Principles of Hom. Philosophy and Psychology. There shall be no University examination in the subjects Materia Medica, Organon of Medicine including Principles of Hom. Philosophy and Psychology.
- b) **Second B.H.M.S. (Annual Pattern II Professional)** consisting of: Pathology & Microbiology, Forensic Medicine and Toxicology, Organon of Medicine & Principles of Hom. Philosophy, Homoeopathic Materia Medica, Surgery including ENT, Ophthal, Dental & Hom. Therapeutics. Obstetrics & Gynaecology, Infant care & Hom. Therapeutics. There shall be no University examination in the subject: Surgery including ENT, Ophthalmology, and Dentistry & Hom. Therapeutics, Obstetrics & Gynaecology, Infant care & Hom. Therapeutics,
- c) **Third B.H.M.S (Annual Pattern III Professional)** consisting of: Surgery including ENT, Ophthalmology, Dentistry & Hom. Therapeutics, Obstetrics & Gynaecology, Infant Care & Hom. Therapeutics, Homoeopathic Materia Medica. Organon of Medicine, Practice of Medicine & Hom. Therapeutics, Repertory and Community Medicine. There shall be no University examination in the subject: Practice of Medicine, Repertory and Community Medicine.
- d) **Fourth B.H.M.S (18 Month Course and half year)** Final professional consisting of: Practice of Medicine and Hom. Therapeutics. Homoeopathic Materia Medica, Organon of Medicine and Principles of Hom. Philosophy, Repertory and Community Medicine.
- e) During the third to IX Semesters, clinical postings of three hours duration daily shall be conducted by each department only after introductory teaching in clinical methods in Medicine, Surgery, Obstetrics and Gynecology, each of two weeks durations, and the Case-taking, Analysis and evaluation, choice of repertory, Reportorial totality, selection of remedy and repetition of dose, of four weeks duration for the entire class at beginning of second B.H.M.S. and third B.H.M.S. of the Degree Course.
- f) The posting in second to fourth B.H.M.S. shall include exposure to laboratory investigations, rehabilitation, physiotherapy and maternity training and family welfare Unit.
- g) The scope of the subject shall be as indicated in the syllabus.

**2.6. Regulation Relating to Assessment of Academic growths of Students:-**

**2.6.1** Seventy five (75%) per cent attendances at the minimum in each of the subjects (in theory and practical including clinical) for appearing in the University examinations shall be compulsory -

**2.6.1.1** In order to pass in a subject, a candidate shall obtain 50% of total marks in aggregate with a minimum of 50% marks in theory examination and minimum of 50% marks in practical including oral examination at one and the same sitting.

2.6.1.2 A candidate, who has passed any of the subject of the examination by obtaining 50% of marks as per the provisions of this Ordinance shall not be required to appear in that subject at the subsequent examination, and shall be declared to have passed the whole examination only when he/she has passed in all the subjects of that examinations.

2.6.1.3 Failure to pass the examination shall not debar a candidate from appearing at any subsequent examination; however, the candidate shall be required to re-apply with payment of examination fees.

2.6.1.4 There shall be a supplementary examination each year, which shall be conducted within two months of declaration of results.

2.6.1.5 If a candidate fails to pass the examinations in four subsequent examinations including the first examination, he/she shall be required to repeat the course of studies in all the subjects and in all parts for one year to the satisfaction of the Head of the College and shall appear for the examination in all the subjects:-

(i) For non-appearance at examination for any reason, a candidate shall not be permitted to avail additional chance to appear in that examination.

(ii) Every candidate shall be required to complete the Course, including the passing of examination in all subjects and complete compulsory internship training, within a period of eleven years from the date of admission in First B.H.M.S Degree Course in the college concerned, failing which his name shall be removed from the roll of the college.

(iii) The examining body shall ensure that the result of the examination is published latest within one month of the last date of examination, so that the students can complete the course in 5½ years after admission.

2.6.2 (i) The candidate shall pass First B.H.M.S examination in all subjects at least one semester (Six months) before he is allowed to appear in the Second B.H.M.S examination provided that he/she has passed in the subjects of anatomy and physiology (including Biochemistry) examination two semesters (twelve Months) before he is allowed to appear in the Second B.H.M.S examination

(ii) The candidate shall be required to pass the Second BHMS examination before being entitled to appear for Third BHMS examinations, and pass the Third BHMS examination before being entitled to appear for the Final BHMS examination.

(iii) Provided that if a candidate appearing for the Final BHMS examination has only one subject to pass at the end of prescribed four chances, he/she shall be allowed to appear at the next examination in that particular subject in which he has failed and shall complete the examination with this special chance.

In order to pass the examination, grace marks up to a maximum of 10 marks may be awarded to a student who has failed in one or more subjects.

2.6.3 There shall be verification of marks of answer books of theory examination in any of the subject(s). However, there shall be no provision for revaluation, as there is double evaluation.

2.6.4 The subject or subjects in which successful candidates may have distinguished themselves shall be shown in the mark list. In order to obtain distinction in any of the subjects of the examination a candidate shall obtain 75% of the full marks allotted to that



subject without any grace marks in that subject.

**2.6.5** Except as otherwise provided, only those candidates who pass the whole examination in the first attempt without any grace marks in any subject at the Regular examination, shall be eligible for University Awards/Medals.

## **2.7. Teaching Hours Subject wise:- course structure**

### **2.7.1 First Year BHMS (Duration 1Year)**

**Table I: Subjects prescribed and distribution of teaching hours for theory and practical classes**

(i) Any undergraduate may be admitted to the First B.H.M.S. examination provided that he has regularly attended, the following courses of instruction in the subjects of the examination, theoretical and practical for not less than one and half years in the college / institution to the satisfaction of the Principal / Director / Principal of the institution / college.

The Courses of minimum number of lectures, demonstrations/practical clinical classes/seminars etc. in the subjects shall be as shown below:-

<b>Subject Demonstration</b>	<b>Theoretical Lecture</b>	<b>Practical/ Tutorial/ Seminar</b>
1. Organon of Medicine, Principles of Homoeopathic Philosophy and Psychology	150 hrs. (including 40 hrs. for Psychology)	35 hrs. (including 10 hrs. for Psychology)
2. Anatomy, Histology and Embryology	250 hrs.	325 hrs.
3. Physiology including Biochemistry	250 hrs.	325 hrs.
4. Homoeopathic Pharmacy	100 hrs.	100 hrs.
5. Homoeopathic Materia Medica	50 hrs.	25 hrs.

\* Students should be given introductory lectures on history of medicine in general with special reference to the emergence of Homoeopathy, contribution made by Hahnemann to medicine in general, life of Hahnemann, the history of the development of Homoeopathy in India.

**2.7.2 Second Year BHMS (Duration 1 Year)****Table II: Subjects prescribed and distribution of teaching hours for theory and practical classes.**

Courses of the minimum number of lectures, demonstrations and practical / clinical classes in the subjects shall be shown as below:-

Subject	Theoretical Lecture	Practical/ Tutorial/ clinical/ Seminar
1. Pathology and Microbiology including Parasitology, Bacteriology and Virology.	200	70
2. Forensic Medicine & Toxicology	50	20
3. Organon of Medicine and Principles of Homoeopathic Philosophy	125	
4. Homoeopathic Materia Medica	75	75
5. Surgery including ENT, Eye Dental and Homoeo therapeutics	50 75 25 One term of three months in surgical ward and OPD.	75
6. Obstetrics & Gynaecology Infant care and Homoeo therapeutics	75 One term of three months in Gynaecology & Obstetrics ward and OPD.	75
7. Practice of Medicine and Homoeo Therapeutics	50 } 25 75 One term of three months in OPD and IPD of different Medical wards	75

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**2.7.3 Third Year BHMS (Duration 1 Year)****Table III: Subjects prescribed and distribution of teaching hours for theory and practical classes**

The Courses of minimum number of lectures, demonstrations and practical/ clinical classes in the subjects shall be as shown below :-

Subject	Theoretical Lecture	Practical/ clinical/ Tutorial classes
1. Practice of Medicine & Homoeo therapeutics	50 75 25	75 One term of 3 months each in OPD & IPD in different wards/ Dept.
2. Surgery including ENT, Ophthalmology & dental) & Homoeo therapeutics	100 50 150	75 One term of three months each in Surgical ward and OPD.
3. Obstetrics & Gynaecology Infant care & Homoeo therapeutics	100 50 150	75 One term of three months Gynae. Ward and OPD.
4. Homoeopathic Materia Medica	100	75
5. Organon of Medicine	100	75

**2.7.4 Fourth Year BHMS (Duration 1.1/2 Year)****Table IV: Subjects prescribed and distribution of teaching hours for theory and practical classes**

The Courses of minimum number of lectures, demonstrations and practical/clinical classes in the subjects shall be as given below:-

Subject	Theoretical Lecture	Practical/ clinical Tutorial classes
1. Practice of Medicine & Homoeo therapeutics	100 150 50	200 One term of 4 months in OPD & IPD in different wards/ Deptt.
2. Homoeopathic Materia Medica	100	75
3. Organon of Medicine	100	75
4. Repertory	125	150
5. Community Medicine	100	100

**Note:**

1. Clinical classes in the subjects of Homoeopathic Materia Medica, Organon of Medicine, Principles of Homoeopathic Philosophy, Case taking and Repertory have to be accommodated within Surgery, Obstetrics and Gynaecology and Medical OPD /IPD postings during 2<sup>nd</sup> to 4<sup>th</sup> BHMS courses.

2. One term of three months each in outpatient department and in patient department respectively for case taking analysis, evaluation and provisional prescription just for case presentation on 10 cases per month.

**3. Commencement of Course:-**

3.1 The BHMS Course shall commence with effect from 1<sup>st</sup> August of respective year or decided by competent authority.

3.2 The last date up to which students can be admitted against vacancies arising due to any reason shall be 30<sup>th</sup> September of respective year or as per prevailing rule.

**4. University Examinations – Theory & Practical:-**

The year-wise distribution and the schedule of the examination shall be as under:-

Year	Year wise program	University Examination
First B.H.M.S.		First B.H.M.S. Professional Examination shall be held in the 12th month of admission to First BHMS.
Second B.H.M.S.		Second B.H.M.S. Professional Examination shall be held in the 24th month of admission to First BHMS. .
Third B.H.M.S.		Third B.H.M.S. Professional Examination shall be held in the 36th month of admission to First BHMS.
Fourth B.H.M.S.		Final B.H.M.S. Professional Examination shall be held in the 54th month of admission to First BHMS.

**FIRST BHMS EXAMINATION**

- (i) The student shall be admitted to the First BHMS Examination provided he/ she has required attendance as per regulation.
- (ii) The First BHMS examination shall be held at the end of 1 year of admission.
- (iii) Examination in Organon of Medicine, Principles of Homoeopathic Philosophy and Psychology shall consist of one theory paper and one oral examination.
- (iv) Examination in Anatomy including Histology and Embryology shall consist of two theory papers. Practical includes oral, identification of specimen and histology slides.
- (v) Examination in Physiology including Biochemistry shall consist of two theory papers and one practical including oral.
- (vi) The examination in Homoeopathic Pharmacy shall consist of one theory and one practical including Oral.
- (vii) The examination in Homoeopathic Materia Medica shall consist of one theory and one oral examination.
- (viii) Full marks for each subject and the minimum number of marks required for passing First BHMS should be as follows:

Subject	Written		Practical (including oral)		Total	
	Full marks	Pass marks	Full marks	Pass marks	Full marks	Pass marks
1. Homoeopathic Pharmacy	100	50	100	50	200	100
2. Anatomy	200	100	200	100	400	200
3. Physiology including Biochemistry	200	100	200	100	400	200

## SECOND BHMS EXAMINATION

- I. No candidate shall be admitted to the Second BHMS Examination unless he has passed the First BHMS examination and he/she has required attendance as per regulation.
- II. The Second BHMS examination shall be held at the end of 2 years of admission to First BHMS.
- III. Examinations in Pathology and Microbiology shall consist of one theory paper and one practical including oral. Identification of microscopic slides and specimens shall be a part of practical examination.
- IV. Examination in Forensic Medicine and Toxicology shall consist of one theory paper and one oral examination including identification and spotting of specimens.
- V. Examination in Organon of Medicine, Principles of Homoeopathic Philosophy and Psychology shall consist of one theory paper and one oral examination.
- VI. Examination in Materia Medica shall consist of one theory paper and one practical including oral examination.
- VII. In order to pass the Second BHMS examination, a candidate has to pass all the subjects of the examination.
- VIII. Full marks for each subject and the minimum marks required for pass are as follows:

Subject	Written	Practical (including oral)	Total
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	Full marks	Pass marks	Full marks	Pass marks	Full marks	Pass marks
Pathology & Microbiology-I	100	50	100	50	200	100
Pathology & Microbiology-II	100	50				
Forensic Medicine & Toxicology	100	50	100	50	200	100
Homoeopathic Materia Medica	100	50	100	50	200	100
Organon of Medicine	100	50	100	50	200	100

### THIRD BHMS EXAMINATION

- (i) No candidate shall be admitted to the Third BHMS Examination unless he has passed the Second BHMS examination and he/she has required attendance as per regulation
- (ii) The Third BHMS examination shall be held at the end of 3 years of admission to First BHMS.
- (iii) Examination in Surgery shall consist of three theory papers and one practical examination. One theory paper shall be exclusively on Homoeo therapeutics. The Practical examination shall consist of clinical examination and oral. In the clinical examination the students shall be examined on his skill on the surgical instruments, bandages and general measures related to surgery, scope of Homoeopathic therapeutics and examination and diagnosis of surgical disease through clinical examination, X-ray and other common diagnostic techniques. The case studies reports of the students carried out during the course shall also be considered for the oral examination.
- (iv) Examination in Obstetrics & Gynaecology including infant care shall consist of three theory papers and one practical examination. One theory paper shall be exclusively on Homoeo therapeutics. The Practical examination shall consist of clinical examination and oral. In the clinical examination the students shall be examined on his skill on the specimens, models, instruments, and general appliances related to Obstetrics, scope of Homoeopathic therapeutics and examination and diagnosis of Gynaecological disease through clinical examination, X-ray and other common diagnostic techniques. The case studies reports of the students carried out during the course shall also be considered for the oral examination.
- (v) Examination in Homoeopathic Materia Medica shall consist of one theory paper and one bedside practical examination. The bedside examination shall be on two acute cases with special reference to their nosological diagnosis and therapeutic diagnosis from Homoeopathic point of view.

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- (vi) Examination in Organon of Medicine shall consist of one theory paper and one oral examination.
- (vii) In order to pass the Third BHMS examination, a candidate has to pass all the subjects of the examination.
- (viii) Full marks for each subject and the minimum marks required for pass are as follows:

<b>Subject</b>	<b>Written</b>		<b>Practical (including oral)</b>		<b>Total</b>	
	<b>Full marks</b>	<b>Pass marks</b>	<b>Full marks</b>	<b>Pass marks</b>	<b>Full marks</b>	<b>Pass marks</b>
Surgery including ENT Ophthalmology & dental Homoeo Therapeutics	200	150	200	100	500	250
Obstetrics & Gynaecology Infant care & Homoeo therapeutics	200	150	200	100	500	250
Homoeopathic Materia Medica	100	50	100	50	200	100
Organon of Medicine	100	50	100	50	200	100



**FOURTH BHMS EXAMINATION**

- (i) No candidate shall be admitted to the Fourth BHMS Examination unless he has passed the Third BHMS examination and he/she has required attendance as per regulation.
- (ii) The Fourth BHMS examination shall be held at the end of 4 ½ years of admission to First BHMS.
- (iii) Examination in Practice of Medicine including Pediatrics, Psychiatry and Dermatology shall consist of three theory papers and one bedside practical examination. One theory paper shall be exclusively on Homoeo therapeutics. The Practical examination shall consist of clinical examination and oral. In the clinical examination the students shall be examined on his skill on the nosological and therapeutic diagnosis, through clinical examination, X-ray and other common diagnostic techniques and detailed case takings on long and short cases. The case reports of the students carried out during the course shall also be considered for the oral examination.
- (iv) Examination in Case taking and Repertory shall consist of one theory paper and one practical examination. The Practical examination shall consist of the Homoeopathic principles on case taking of one long case and one short case and the methods of arriving the reportorial totality, through case analysis and actual repertorisation. The skill of finding rubrics from Kent and Bonninghausan Repertories, the case reports of the students carried out during the course shall also be considered for the oral examination.
- (v) Examination in Homoeopathic Materia Medica shall consist of two theory papers and one bedside practical examination. The bedside examination shall be one long acute case with special reference to their nosological diagnosis and therapeutic diagnosis from Homoeopathic point of view. The case reports of the students carried out during the course shall be considered for the oral examination.
- (vi) Examination in Organon of Medicine and Principles of Homoeopathic Philosophy shall consist of two theory papers and one practical examination. The practical examination shall be on the Homoeopathic orientation of cases in relation to miasmatic diagnosis, general management, posology, second prescription etc.
- (vii) The examination in Community Medicine including Health Education and Family Welfare shall consist of one theory paper and one oral examination. The oral examination shall be on spotting and identification of specimens and matters related to the community oriented problems.
- (viii) In order to pass the Fourth BHMS examination, a candidate has to pass all the subjects of the examination.
- (ix) Full marks for each subject and the minimum marks required for pass are as follows:

<b>Subject</b>	<b>Written</b>		<b>Practical (including oral)</b>		<b>Total</b>	
	<b>Full marks</b>	<b>Pass marks</b>	<b>Full marks</b>	<b>Pass marks</b>	<b>Full marks</b>	<b>Pass marks</b>
Practice of Medicine	200	100	200	100	500	250
<b>Homoeopathic Materia Medica</b>	200	100	200	100	400	200
Organon of Medicine	200	100	100	50	300	150
Case taking & Repertory	100	50	100	50	200	100
Community Medicine	100	50	100	50	200	100

**General Guidelines for Admission to Examination and scheme of examination:-**

- Each theory paper shall be of three hours duration.
- The Practical/ oral examination shall be completed immediately after the theory examination.
- The Theory and practical examinations shall be held in the premises of the Homoeopathic Medical college concerned.
- There shall be two examinations in a year. One regular examination and another supplementary. The supplementary examination shall be conducted within six months of regular examination.
- No student shall be permitted to join para clinical / clinical group of subjects until he has passed in all pre-clinical subjects of First BHMS for which he will be permitted not more than four chances, including the original examination.

**NOTE:-** it is subject to the provision that any changes if notified through Regulation by the Central Council for Homoeopathy, the provision of the above clause shall be modified to the extent.

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### **5. Appointment of Examiners:-**

**5.1 Examiners** – (i) No person other than the holder of qualification prescribed for the teaching staff in the Homoeopathy Central Council (Minimum Standards Requirement of Homoeopathic Colleges and attached Hospitals) Regulations, 2013 (as amended from time to time) shall be appointed as an internal or external examiner or paper-setter or moderator for the B.H.M.S Degree Course:

Provided that, —

- (a) No such person shall be appointed as an examiner unless he has at least three years' continuous regular teaching experience in the subject concerned, gained in a degree level Homoeopathic Medical College.
- (b) Internal examiners shall be appointed from amongst the teaching staff of the Homoeopathic Medical College to which the candidate or student belongs.
- (c) A paper setter may be appointed as an internal or external examiner.

(ii) The criteria for appointing the Chairman or paper-setter or moderator shall be as follows, namely: —

- (1) **Chairman:** Senior most person from amongst the examiners or paper-setters appointed for theory and oral or practical or clinical examinations shall be appointed as Chairman and the eligibility qualification for the Chairman shall be the same as for appointment of a Professor.
- (2) **Moderator:** A Professor or Associate Professor or Reader shall be eligible to be appointed as moderator: Provided that an Assistant Professor or Lecturer with five years experience as an examiner shall be eligible to be appointed as moderator
- (3) **Paper-setter:** A Professor or Associate Professor or Reader shall be appointed as a paper-setter: Provided that an Assistant Professor or Lecturer with three years experience as an examiner shall be eligible to be appointed as Paper-setter.

(iii) The examining body may appoint a single moderator or moderators not exceeding three in number for the purpose of moderating question papers.

(iv) Oral and practical examinations shall as a rule be conducted by the respective internal and external examiners with mutual co-operation. They shall each have 50% of the maximum marks out of which they shall allot marks to the candidates appearing at the examination according to their performance and the marks-sheet so prepared shall be signed by both the examiners. Either of the examiners shall have the right to prepare, sign and send mark-sheets separately to the examining body together with comments. The examining body shall take due note of such comments but it shall declare results on the basis of the mark-sheets.

(v) Every Homoeopathic College shall provide all facilities to the internal and external examiners for the conduct of examinations, and the internal examiners shall make all preparations for holding the examinations.

(vi) The external examiner shall have the right to communicate to the examining body his views and observations about any short-comings or deficiencies in the facilities provided by the Homoeopathic College.

(vii) He shall also submit a copy of his communication to the Central Council for such action as the Central Council may consider fit.”.

## **6. Revaluation & Re-totaling:-**

**Re-totaling** – The University on application and remittance of stipulated fees as prescribed by the University shall permit a recounting or opportunity to recount the marks received for various questions in an answer paper/papers for theory of all the subjects for which a candidate has appeared in the University examination. Any error in addition if marks awarded, if identified shall be suitably rectified.

**Revaluation** – Revaluation of theory papers in all years of study of the B.H.M.S. course shall be permissible by the University on application and remittance of the prescribed fees within the stipulated time. Such answer scripts shall be reevaluated by not less than two duly qualified examiners and the average obtained shall be awarded to the candidate and the result reconsidered accordingly.

## **7. Internship:-**

### **7.1 Training during Internship–**

I) Training of the internees during the internship shall be regulated by the Principal/ Superintendent of the hospital where an internee undertakes his internship in the hospital attached to the college, but where an internee is posted to a recognized dispensary, the training shall be regulated by a committee consisting of a representative of the College / University and the In-charge of the dispensary. Provided that after satisfactory completion of training, the certificate obtained from the head of the dispensary shall be countersigned by the Principal of the Homoeopathic College.

II) The internee shall be entrusted with the clinical responsibilities and the Senior Medical Officer shall supervise this work. The internee shall maintain a record of work which is to be periodically verified by the Medical Officer under whom the internee is posted. The scrutiny of the record of work may be objectively viewed as regard to knowledge, skill, and aptitude towards the patient shown by the intern's work.

III) The internship training shall include training in case-taking, analysis and evaluation of symptoms, reportorisation and management of common ailments through Homoeopathic treatment. Intern should be exposed to the training in medicine, surgery including ophthalmology and E.N.T. departments, obstetrics and gynecology departments, pediatrics, skin,



family welfare and community medicine, if possible at the rural health training centre or at the P.H.C. In the department of Medicine, training in minor ward procedures should be given to internees.

IV) Internee should be exposed to clinical pathology work to acquire skill to do independently some common procedures like routine blood examination, ESR, blood smear for parasites, sputum examination, urine, stool examination and such other. He should be given opportunities for active participation in interpretation of laboratory data in context to the clinical finding and arriving at a diagnosis and planning out of the Homoeopathic treatment.

V) In the department of Surgery, he/she should acquire skill for management of minor emergencies, practical implementation of aseptic techniques and procedure including preparation of operation theatre, sterilization and such other. He should be involved in participation in pre-operative care and post operative care, and practical use of anesthetic techniques. He should also work in casualty departments. All this training should strictly be under expert supervision only.

VI) In the department of Obstetrics and Gynaecology the internee should be involved in antenatal care with particular reference to the nutritional status of mother, management of normal and abnormal labours; care of the new-born, postnatal care of mother and child.

VII) Training in Pediatric department, to understand pediatric problems and their management through Homoeopathy.

VIII) In the department of Skin, the internee should be exposed to various skin lesion and their diagnosis including allergy, leprosy, leucoderma, etc and their management through Homoeopathy.

IX) He should be exposed to various community based health activities, health programmers, their implementation and organizational set up. He should also be involved in motivational programmes, health education, and nutrition, MCH, family welfare and other activities, control of communicable diseases like tuberculosis, leprosy and sexually transmitted diseases.

X) In the department of Skin, the internee should be exposed to various skin lesion and their diagnosis including allergy, leprosy, leucoderma, etc and their management through Homoeopathy.

XI) He should be exposed to various community based health activities, health programmers, their implementation and organizational set up. He should also be involved in motivational programmes, health education, and nutrition, MCH, family welfare and other activities, control of communicable diseases like tuberculosis, leprosy and sexually transmitted diseases.

## 7.2 Distribution of Period of Internship:-

- i. Practice of Medicine 8 months: wherein internee will be rotated in each Psychology, Respiratory, Gastro Intestinal, Endocrinology, Skin and V.D,  
a. Loco-motor, Cardioogy, Paediatrics sections.
- ii. Surgery: 1 month
- iii. Obstetrics & Gynaecology : 2 months (1 month each including Reproductive & Child Health Care)
- iv. Community Medicine (including PHC/CHC): 1 month

## 7.3 Other points of Internship

Minimum attendance of each internee shall not be less than 80% in respect of hospital posting as well as the same percentage in seminars, bedside clinics case conference / clinical meetings, electives, community services, and such other.

## 7.4 Assessment

- a) Each internee shall have to maintain detailed records of at least 25 acute cases and 15 chronic cases treated with Homoeopathic Medicine during his training in the medical department with due analysis, evaluation and justification.

Each internee shall have to maintain detailed records of at least 10 delivery cases

- b) Attended by him in the Department of Obstetrics and Gynaecology, 15 surgical cases assisted by him in the Department of Surgery.

During this period, internee shall also have to carry out any elective assignment on any subject given to him/her by the physician in charge.

## 8. Migration:-

1. Migration from one college to another is not a right of a student.
2. Migration of student from the Homoeopathic College in India shall be considered by the Central Council of Homoeopathy only in exceptional case on extreme compassionate grounds, provided following criteria are fulfilled. Routine migrations on other grounds shall not be allowed.
3. Both the colleges, the one at which the student is studying at present and the one to which migration is sought, must be recognized as per provisions of Homoeopathy Central Council Act.
4. The applicant shall have passed first BHMS examination.

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5. The applicant shall submit his application in the prescribed format for migration, complete in all respect, to the principal of the College within a period of one month of passing / declaration of result of the First Year Bachelor of Homoeopathy Medicine & Surgery (B.H.M.S) Examination.
6. The applicant shall submit an affidavit stating that he shall pursue twelve months of prescribed study before appearing at Second Year B.H.M.S Examination at the transferee College, which shall be duly certified by the Registrar of the concerned University in which he is seeking transfer and the transfer shall be effective only after receipt of the affidavit.
7. Migration during internship shall be allowed on extreme compassionate grounds, provided that such migration shall be allowed only with the mutual consent of the concerned Colleges, where both the Colleges, the one at which the student is studying at present and the one to which migration is sought are recognized as per provisions of Homoeopathy Central Council Act.  
Provided:-
  - a) All applications for migration shall be referred to Central Council of Homoeopathy by college authorities. No Institute or University shall allow migration directly without the approval of the Central Council.
  - b) The Central Council of Homoeopathy reserves the right not to entertain any application except under the following compassionate grounds, namely:-
    - Death of a supporting Guardian.
    - Illness of candidate causing disability supported by Medical grounds certificate by a recognized Hospital.
    - Disturbed condition as declared by the State Government in the area where the College is situated.
  - c) A student applying for transfer on compassionate ground shall apply in the prescribed format duly filled, with requisite documents.

#### **9. Cancellation of Admission:-**

The admission of the students at any stage of the study shall be cancelled by the Vice Chancellor based on the recommendation of the head of the Institution if-

- i. He / She is not found to be qualified or eligible as per Homoeopathy Council of India norms and guidelines.
- ii. He / She is found to have produced false or forged documents or found to have used unfair means to secure admission.
- iii. He / She found to be involved in serious breach of discipline in the Institution or the University campus.

**Note: - It is subject to the provision that any changes if notified through Regulation by the Central Council for Homoeopathy/ Central Government/ State Government the provision of the ordinance may be modified accordingly.**

**ORDINANCE NO. 86**  
**Establishment under M.P. Act No. 17 of 2007**  
**SYLLABUS AND REGULATIONS**  
**BACHELOR OF HOSPITAL MEDICAL RECORD SCIENCE (3.5 YEAR)**  
**1. PROPOSED REGULATION**

The course shall be called “BACHELOR OF HOSPITAL MEDICAL RECORD SCIENCE” (BHMRS) under the Malwanchal University Indore. The course shall be of three and half years. The course is designed to enable students to acquire knowledge and skill in Medical Record Science and information so that after passing the final examination, they can function as qualified Health Record professionals.

These regulations and the syllabus are subject to modification by the Academic Council of the University from time to time.

**2. OBJECTIVES**

1. To have an exposure to the vast strides in the classification and codification of drugs, diseases and their treatment, and in the organization of hospitals.
2. To acquire sufficient knowledge of the prevailing system of scientific documentation with computerization, information search and retrieval.
3. To acquire knowledge of the networking of hospitals and institutions by the Internet and Intranet.
4. To get familiarity with large databases dealing with various categories of entities such as diseases, pathological conditions, symptoms, drugs and concepts such as ‘data mining’
5. To acquire knowledge of the current trends in Medical Record Science like health insurance and third party payers.
6. To integrate advanced knowledge and skills in health care data.
7. Apply effective communication skills and strategies in interactions with multidisciplinary and multi-facility professionals.

**3 ELIGIBILITY**

Candidates should have passed 10+2 with minimum 50% marks with English, Physics, Chemistry and Biology as the main subjects.

**4. AGE LIMIT FOR ADMISSION**

Candidates should have completed the age of 17 years at the time of admission or should complete the said age or before 31<sup>st</sup> December of the said year.



**5. REGISTRATION**

A candidate admitted to the Bachelor of Hospital Medical Record Science (BHMRS) degree course shall register with the university by remitting the prescribed fee along with the application form for registration duly filled in and forwarded to this university through the Head of the Institution within the stipulated date.

**6. DURATION OF THE COURSE**

The duration of certified study of the BHMRS course shall extend over a period of 3(three) academic years followed by six months of compulsory Internship.

**7. MEDIUM OF INSTRUCTION**

English shall be the medium of instruction for all the subjects of study of the BHMRS degree course.

**8. COMMENCEMENT OF COURSE**

The academic year for the BHMRS course shall commence as per the norms of the university.

**9. WORKING DAYS IN THE ACADEMIC YEAR**

Each academic year shall consist of not less than 240 working days.

**10. ATTENDANCE REQUIRED FOR EXAMINATIONS**

i. No candidate shall be permitted to appear for any one of the parts of BHMRS degree course examinations, unless he/ she has attended the course in the subject for the prescribed period in an affiliated Institution recognized by this University and produces the necessary certificate of study, attendance, satisfactory conduct and progress from the Head of the Institution.

ii. A candidate is required to put in a minimum of 75% of attendance in both theory and practical separately in each subject for the eligibility for examination.

iii. A candidate lacking in the prescribed attendance and progress in any one of the subjects in theory and practical in the first appearance shall not be permitted for the entire examination.

**11. INTERNAL ASSESSMENT**

The Internal Assessment for each subject of each academic year will carry 25 marks.

**12. MARKS QUALIFYING FOR PASS (THEORY AND PRACTICE)**

- a) In all university examinations, the candidate shall have to obtain 50% marks separately in Theory plus internal assessment plus viva voce and practical examination.
- b) Each theory paper and practical will be treated as separate subject head for passing.

**13. CARRYING OVER OF FAILED SUBJECTS**

- a) The candidate shall carry over on subject from one year to the next year.
- b) Must pass in the fail subject before appearing in the next year examination.

**14. SCHEME OF EXAMS:**

The scheme of examination is as follows:

**FIRST YEAR**

Sl. No.	Subject Title	Internal Assessment	Theory		Practical		Viva Voce		Max Total marks
			Max	Min	Max	Min	Max	Min	
1.	Pre and Para clinical subjects Human Anatomy, Physiology, Clinical and General Pathology, Microbiology, Biochemistry, Pharmacology and Forensic Medicine	20	80	50	-	-	50	25	150
2.	Medical Terminology I	20	80	50	-	-	50	25	150
3.	Medical Record Science	20	80	50	-	-	-	-	150

**Internal Paper:**

Sl. No.	Subject Title	Internal Assessment		Theory	
		Max	Min	Max	Min
1.	* English	50	25	100	50
2.	* Computer	50	25	100	50

\* English and Computer are internal papers. Marks to be sent to the university. There will be no university examination for English and Computer paper.

**SECOND YEAR**

Sl. No.	Subject Title	Internal Assessment	Theory		Practical		Viva Voce		Max Total marks
		Max	Max	Min	Max	Min	Max	Min	
1.	Bio-Statistics, Hospital Statistics	20	80	50	-	-	-	-	100
2.	Information Technology I	20	80	50	-	-	-	-	100
3.	Medical Terminology II	20	80	50	-	-	50	25	150
4.	Health Information Management I & Nomenclature	20	80	50	-	-	50	25	150

**THIRD YEAR**

S. N o.	Subject Title	Internal Assessment	Theory		Practical		Viva Voce		Max Total marks
		Max	Ma x	Mi n	Ma x	Min	Max	Min	
1.	International Classification of Diseases(ICD-10) and Surgical Procedures (ICD 9CM), CPT, HCPCS	20	80	50	-	-	50	25	150
2.	Hospital Organization and Administration Medical Ethics and Consumer Protection Act	20	80	50	-	-	-	-	100
3.	Health Information Management II, Medical Transcription and Telemedicine	20	80	50	-	-	50	25	150
4.	Hospital Accounting and Financial Accounting and Health Insurance and Billing Design	20	80	50	-	-	-	-	100

**15. RECOMMENDED CLOCK HOURS OF INSTRUCTION FOR EACH SUBJECT:**

Sub code	Subjects	Lecture hours
BMRS Sc 1-1	Pre and Para clinical subjects	120 hours
BMRS Sc 1-2	Medical Terminology I	200 hours
BMRS Sc 1-3	Communication skills	50 hours
BMRS Sc 1-4	Medical Record Science	120 hours
BMRS Sc 2-1	Bio-Statistics, Hospital Statistics	75 hours
BMRS Sc 2-2	Information Technology	75 hours
BMRS Sc 2-3	Medical Terminology II	150 hours
BMRS Sc 2-4	Health Information Management I & Nomenclature	150 hours
BMRS Sc 3-1	International Classification of Diseases (ICD-10) and Surgical Procedures (ICD-9CM), CPT & HCPCS	175 hours
BMRS Sc 3-2	Hospital Organizations and Administration and Medical Ethics and Consumer Protection Act I	150 hours
BMRS Sc 3-3	Hospital Accounting and Financial Accounting, Health Insurance and Billing Design.	150 hours
BMRS Sc 3-4	Health Information Management II, Medical Transcription and Telemedicine	175 hours
	Practical Experience (Total hours for 3 years)	4310 hours
	Special Lectures	50 hours

**16. PRACTICAL TRAINING**

Outpatient Area		Hours
01	Registration of new cases	35
02	Registration of old cases	35
03	Patient guide	20
04	Computerized Alpha Index	10
05	OP coding (diseases) and Indexing	48
06	OP records retrieval	50
07	OP procedure test	2
08	OP Seminar	3
09	OP Statistics	10
10	Investigation Process	3
<b>Total</b>		<b>216</b>
Inpatient Area		Hours
01	Admission office (Computerized & Manual)	160
02	Inpatient record forwarding	150
03	Daily Census (Computer and manual)	160
04	Assembling and deficiency check	160
05	Inpatient diagnoses Coding and Indexing	192
06	Discharge analysis (Manual & Computer)	160
07	Incomplete record control	160
08	Completed record control (Group study)	160
09	Correction and authentication of Birth & death reports	150

10	Medico-legal procedures (OP & IP)	50
11	Medical Statistics	25
12	Record retention and destruction (OP and IP records)	72
13	Seminar	10
14	Test on IP procedures	3
15	Various OPDs	1500
<b>Total</b>	<b>1500</b>	

<b>Miscellaneous section</b>		<b>Hours</b>
01	Orientation introduction to all sections of the hospital	42
02	Hospital Reception	15
03	Record system in other departments of the hospital (Radiation Therapy, MHC, CHAD, RUHSA)	20
04	Secretarial practice	15
05	Library	500
06	Visiting other Health Care Institutions	30
07	Special projects	20
08	Training in Rural and Urban Health Centres	45
<b>Total</b>		<b>687</b>

### **19. AWARD OF DEGREE**

The university shall award the degree only after successful completion of the 3 year course and Compulsory Internship of 6 months.

### **20. MODEL QUESTION PAPER FOR ALL SUBJECTS OF BMRSc DEGREE EXAMINATION (Except ICD Coding)**

<b>Subject having Maximum marks 100</b>		
<b>Type of Question</b>	<b>Number of Question</b>	<b>Marks of each question</b>
Essay Type	4 (Any 4 out of 5)	20 x 4 = 80
Short Answer Type	4 (Any 4 Out of 5)	5 x 4 = 20

Time: 3 hours Maximum marks: 100 marks Answer ALL questions

### **SECTION A**

1. Essay type questions (2\*15=30)

- a)
- b)

2. Short notes (10X5 = 50)

- a)
- b)
- c)
- d)
- e)
- f)
- g)
- h)
- i)
- j)

### **SECTION B**

2. Short answer type questions.

a) b) c) d) e) (10 X 2 = 20) f) g) h) I) j)

## **BACHELOR OF MEDICAL RECORD SCIENCE**

The three year degree course in Medical Records Science and Management is designed to prepare the student for a professional career in Medical Record Administration and Health Information Management of any modern health care delivery system or care providers

### **BMRS: 1-1 FUNDAMENTALS OF PRE AND PARA CLINICAL SUBJECTS** **Subjects Covered**

Basics of:

1. Human Anatomy and Physiology,
2. Clinical and General Pathology
3. Biochemistry,
4. Pharmacology,
5. Microbiology
6. Forensic Medicine.

### **OVERALL OBJECTIVES**

*On completion of this Course, the students will be able to:*

- Know the anatomical parts of the human body, identify all organs, and their functions;
- Recognize common anatomical planes, regions, and abbreviations; • Acquire knowledge of the anatomical and physiological terms to comprehend Medical Terminology;
- Correctly code the diseases and operative procedures to clinical pertinence as per WHO's ICD – 10;
- Read and understand names of diseases and types of infections for proper classification.
- Understand various Laboratory Tests and Reports, needed in patient care and completion of medical records;
- Read and understand the names and dosages of drugs prescribed alone or in combination for treatment of various diseases;
- Understand various types of medical documentations

- Guide the patients to their respective clinical specialities on presenting signs and symptoms.

## 1. HUMAN ANATOMY AND PHYSIOLOGY

### **Objectives:**

*To make the student to understand medical documentation to perform record analysis, and International Classification of diseases to clinical pertinence.*

On completion of this subject, the student will be able to:

- Identify all anatomical structures of the human body
- Understand the technical functions of various organs and systems of the body
- Acquire knowledge about various body fluids, hormones and enzymes

### **Topics Covered:**

- i. Integumentary system,
- ii. Musculoskeletal system,
- iii. Respiratory system,
- iv. Cardiovascular system,
- v. Blood and lymphatic system,
- vi. Digestive system,
- vii. Urogenital systems,
- viii. Endocrine system,
- ix. Nervous system,
- x. Organs of special sense.

## 2. CLINICAL AND GENERAL PATHOLOGY

### **Objectives:**

*To make the student to understand pathology laboratory reports, the normal ranges of investigations, severity and specificity of disease conditions which will help him perform International Classification of diseases to clinical pertinence.*

On completion of this subject, the student will be able to:

Differentiate between symptoms and diseases

Understand the needs of mandatory diagnostic procedures

Demonstrate an understanding of the pathology of common diseases      Understand various pathology laboratory reports

Know about the possibilities and consequences of nosocomial infections, needle prick injuries etc., in a health care facility

### **Topics covered:**

- Introduction to Pathology
- Inflammation
- Infection
- Degeneration
- Benign and Malignant Tumours
- Blood groups, cross-matching, transfusions
- Tests done on various body fluids and tissues

### 3. BIOCHEMISTRY

**Objectives:**

*To make the student to understand biochemistry laboratory investigation requests, reports, the normal ranges of investigations, severity and specificity of disease conditions which will help him perform International Classification of diseases to clinical pertinence.*

**Topics covered:**

- i. Chemistry of the human body fluids in health and diseases
- ii. Cerebrospinal fluid
- iii. Clotting mechanism of the blood,
- iv. Enzymes produced in the G.I.Tract,
- v. Vitamins, Hormones, Proteins and Non-proteins,
- vi. Nitrogenous substances, lipids, carbohydrates,
- vii. Electrolytes
- viii. Metabolism, acid-base balance,
- ix. Normal values and ranges of biochemistry investigations

### 4. MICROBIOLOGY

**Objectives:**

*To make the student to understand microbiology laboratory investigation requests, reports, various types of bacterial, viral and fungal infections, culture reports, severity and specificity of disease conditions which will help him perform International Classification of diseases to clinical pertinence.*

**Topics covered:**

- i. Introduction to Microbiology,
- ii. Classification and characteristics of organisms,
- iii. Cultivation and identification of organisms, bacteria etc.,
- iv. Disinfection, antiseptics, sanitation,
- v. Immunity,
- vi. Allergy
- vii. Pathogenic organisms, non-pathogenic organisms, virus and fungus.

### 5. PHARMACOLOGY

**Objectives:**

*To make the student to understand drugs and their actions on human body systems, side effects, contra indications, allergic reactions which will enable him to perform qualitative analysis of medical records, accurate coding and medical billing if required*

**Topics covered:**

- i. Introduction to pharmacology,
- ii. General and Local anesthetics
- iii. Hypnotics and Sedatives
- iv. Narcotic analgesics, narcotic antagonists,
- v. Non-narcotic analgesics, antipyretics,
- vi. Psycho-pharmacological agents,
- vii. Drugs acting on autonomic nervous system
- viii. Antihistamines,



- ix. Blocking agents
- x. Respiratory pharmacology, cardiovascular pharmacology
- xi. Coagulants and anticoagulants,
- xii. Diuretics, hormones
- xiii. Chemotherapy
- xiv. Drug addiction

## 6. FORENSIC MEDICINE

### **Objectives:**

*To make the student know about the basics of Forensic Science, Types of medico-legal cases, external causes of injuries, adverse effect of drugs and chemicals, medical laws and ethics, medico-legal autopsy, determination of causes underlying death and code them, etc.*

- i. Topics covered:
- ii. Asphyxial deaths
- iii. Hanging
- iv. Rape , Sodomy
- v. Gun shot injury, injury by bullets, sharp objects
- vi. Traffic Accidents
- vii. Drowning
- viii. Medico-legal aspects of wounds
- ix. Wound certificate
- x. Toxicology
- xi. Food poisoning
- xii. Medico-legal autopsy.

The health information practitioner becomes involved in these ethical dilemmas to the extent that adequate documentation of events in the medical record is required.

### **BMRS 1-2 MEDICAL TERMINOLOGY I**

(including fundamentals of clinical science)

### **OBJECTIVES:**

***On the completion of this Course, the students will be able :***

- To know the elements of medical words.
- To develop sense of correctness of medical terms.
- To gain an understanding of standard medical abbreviations.
- To understand the relationship between medical terms and their synonyms in common usage.
- To spell correctly the medical terms, to detect the meaning of unfamiliar medical terms, by analysis into their elements, and to follow directions given in medical phraseology
- To appreciate the logical order of medical terms, the exactness of concepts in medical terms, and the importance of medical terminology consciousness and continuous study

***All the above characteristics will enable the students in***

- Developing an ability to read and understand medical records and the medical literature;
- Writing terms correctly when abstracting medical records
- Establishing accuracy in International Classification of Diseases, Surgical procedures which will be useful in statistics, medical billing, and auditing medical insurance claims.

**I . Introduction to Medical Terminology**

1. Definition and Origin of Medical Terms.
2. Components of Medical Terms
3. Prefixes
4. Suffixes
5. Roots and Combining forms
6. External Anatomy and Internal Anatomy
7. Additional Lists and their combining forms grouped as:

- Verbs
- Adjectives
- Body Fluids
- Body Substances
- Chemicals
- Colours
- Phobias

**II. Terms Relating to the Body as a Whole**

1. Study of the Body
2. Basic Structures
3. Cells
4. Tissues
5. Organs
6. Systems
7. Directions
8. Anatomic Planes and Position

**III. The Skeletal System**

1. Pathologic conditions (Inflammations and Infections)
2. Hereditary, Congenital and Developmental Disorders
3. Fractures
4. Metabolic and Deficiency Diseases
5. Symptomatic Terms
6. Diagnostic Terms
7. Oncology Terms
8. Operative Terms
9. Laboratory Tests and Procedures
10. Standard Abbreviations

**IV. The Muscular System**

1. Pathologic Conditions
2. Degenerative and Innervative Disorders
3. Hereditary, Congenital and Developmental Disorders
4. Symptomatic Terms
5. Diagnostic Terms
6. Oncology Terms
7. Operative Terms
8. Laboratory Tests and Procedures.
9. Standard Abbreviations

**V. Integumentary System**

1. Pathologic Conditions
2. Fungal, Viral and Parasitic Infections

3. Hereditary, Congenital and Developmental Disorders
4. Symptomatic Terms
5. Diagnostic Terms
6. Oncology Terms
7. Operative Terms
8. Laboratory Tests and Procedures

### **BMRS 1-3 COMMUNICATION SKILLS**

#### **OBJECTIVES:**

*On completion of this course, the student will be able to:*

- Cut down common grammar errors
- Read, write and speak in right terminology appropriate to the context      Develop vocabulary related to general and office communications      □ Communicate effectively
- Use well mannered body language
- Maintain eye contact during conversations
- Demonstrate skill in writing and speaking
- Undertake office correspondence, that include letters, circulars, memos, reports, writing departmental policies and procedures
- Project department related presentations before invited audience

#### **I. Basics of Communication:**

- Process of and models of communications
- Types of communications:
  - a). Oral communication
  - b). Written Communication
  - c). Non-verbal communication & Body language
- Barriers to communications

#### **II. Reading Skills:**

- Types of readings: Skimming, Scanning, intensive / loud / silent reading, map reading
- Sample passages for reading with comprehension exercises
- Tables and Graphic Organizers

#### **III. Listening skills**

- Definition of listening
- Types of Listening
- Purposes of listening
- Obstacles for listening
- Contexts of listening
- To be a good listener
- Listening to a Lecture

#### **IV. Speaking Skills**

- Formal & Informal Conversation: Agreeing, Emphasizing, thinking ahead, correcting oneself, interrupting, politely expressing reservations, opinions, disagreeing, accepting invitations declining invitations etc.



- Telephone Conversation
- Interviews
- Visual Presentation

## **V. Writing Skills**

- Tenses
- Writing Sentences
- Writing Paragraphs: The Development of a Paragraph
- Formal Letters – personal, applications, bio-data,
- Official correspondence: Outgoing correspondence, replying incoming correspondence, writing circulars, notices, charge memos
- Writing Reports able, Charts and Graphs
- Medical Transcription

## **VI. Study Skills**

- Improving Study Skills
- Note Taking: Some Basic Devices,
- Writing Summaries, observation reports, and action plan

## **VII. Effective communication in Hospitals:**

- Communicating to match the mission and vision of the institution
- The strategy of keep informed
- The nature of communications in a hospital
- Upward and Downward Communications
- Reporting of feedbacks
- Intra and interdepartmental communications
- Communications with Medical Staff, Paramedical staff and Support Services Staff The care provider – customer relationship
- Patient as VIP and his rights; Patient's locus standing, his agony, pains and tensions Directing patients to right destinations
- Giving hope to the hopeless
- Communications with the sick and injured
- Communications with teens and youngsters, middle aged and the aged Keeping up good impressions and manners before patients and their attendants Body language – How can you say it better than words?
- Communicating practically and technically feasible solutions
- How to say “no” graciously?
- Effective Intra and interdepartmental communications
- Common problems arising out of bad quality communications and trouble shooting techniques.

## **BHRA 1-4 MEDICAL RECORD SCIENCE**

**Subject description:** Information is the life blood of health care delivery system. The medical record, in manual or automated form, houses the medical information that describes all aspects of patient care. Physicians, nurses, and other health care providers require medical information for treating a patient. The medical record serves as a communication link among care-givers. Documentation in the medical record also serves to protect the legal interests of the patient, health care provider, and health care facility.

## **OBJECTIVES:**

*On completion of this Course, the students will be able to:*

1. Get acquainted with brief Historical Review of Medical Records, in USA, at the International Level and in India

2. Learn Definition of Medical Record, its Values accruing to various users
3. Be familiar with Medical Record Forms and their Content Index Cards and Registers.
4. Review of health records for Deficiencies, Qualitative & quantitative analysis.
5. Acquire knowledge for the organization and management of medical record department (both for Inpatients & Out-patients, including Emergency care patients).
6. To know about different numbering, filing and color coding systems.
7. To know about the role of a health record professional in quality management & improvement, Utilization and risk management programmes.
8. To know about health record documentation policies, corrections and authentication procedures
9. To know the Legal Aspects & Confidentiality of Medical Records.
10. To know about different nomenclatures, and classification systems of medicine and procedures.
11. To know about manual and computerized medical record administration.
12. To know about claims through medical insurance .
13. Learn the techniques to file medical records in an accessible manner;
14. Learn the Retention Policies of medical records, and ways of disposal of Inactive Medical records
15. Get acquainted with the latest storage devices- Scanning & Disk Storage, Digital Record keeping system, etc
16. Maintain and Manage Disease Index, Physician Index, Operation Index and registers such as Admissions& Discharges, Birth, Death, Medico-legal, Notifiable Diseases, Cancer Registry etc., and indexes such as Disease, Physician, and Operations.

## CONTENTS OF THE CURRICULUM THEORY

### **1. History of Development of Medical Records During different periods-**

1. Early Ancient Times to Renaissance Period (16<sup>th</sup> & 17<sup>th</sup> Centuries).
2. 18<sup>th</sup> -20<sup>th</sup> Centuries and Till Date
3. In U.S.A.
4. At International Level
5. In India

### **II. Characteristics of quality Medical Records:**

- Definition, Characteristics of 'Good' Medical Record
- Values of 'Good' Medical Record to various users
- Required Characteristics of entries in medical Records
- Responsibility for Medical Record Quality
- Source-oriented, Problem-oriented, and Integrated medical records      Medical Record Forms and their Content
- Standard Order of Arrangement of Medical Record forms
- Analysis of Medical Record-Quantitative & Qualitative
- Incomplete Record Control

### **III. Medical Records for different patient encounters with health care facility**

- i. Ambulatory Care Records {Emergency & Outpatient Records}
- ii. Clinical Records in Long Term Care and Rehabilitation Facilities
- iii. Mental Health Records

### **IV. Filing Methods, Storage, and Retention**

- Numbering and Filing Systems
- Filing
- Storage- Microfilming and Disk Storage
- Retention
- Registers & Indexes
- Record movement control & Tracking system

### **V. Organizational Aspects of Medical Record Department/Services**

- Policies
- Functions
- Location, Space and Layout
- Equipment
- Forms Designing and Control
- Medical Records Flow and Processing

### **VI. Organizational Aspects of the Centralized Admitting Services**

- Principles of Identification of a Patient
- Methods of Collection of Identification Data
- Types of Central Admitting Services
- Admitting Policies
- Procedure Outlines for Admissions
- Flow of Records following Admissions
- Advantages of good Admitting Policies and Procedures
- Pre-requisites for smooth & efficient functioning of the Centralized Admitting Services

### **VII. Medical Record Department Management**

- i. Planning, Organizing, Directing and Controlling
- ii. Personnel
- iii. Principal Responsibilities and Duties of the Medical Record Administrator/Director
- iv. Tools of Management in the Hands of the Medical Record Administrator/Director

### **VIII. Intradepartmental and Interdepartmental Relationships**

- i. Developing Intradepartmental Relationship
- ii. Developing Interdepartmental Relationships with various Departments of the Hospital

### **IX. Quality Management**

- i. External and Internal Pressures for quality
- ii. Quality Assessment and Quality Improvement
- iii. Quality Assurance & Medical Care Evaluation
- iv. Utilization management
- v. Peer Review

- vi. Utilization review processing & outcomes of Utilization management
- vii. Risk management program [Organization & Operation]
- viii. International Standards Organization [ISO], Quality Council of India, & National Accreditation Board of Hospitals [NABH]

#### **X. Health Care Statistics, Quality control of Data Collection & Presentation**

- i. Incomplete Record Control
- ii. Inpatient census and rates computed from it.
- iii. Ambulatory care statistics
- iv. Long term Care Statistics
- v. Processing and reporting of Reproductive Health Statistics
- vi. Reporting of Notifiable Diseases to Public Health Authorities

#### **XI. Nomenclatures and Classification Systems:**

- 1. Standard Nomenclatures of diseases (SNDO).
- 2. Current Medical Information Terminology.
- 3. Systematized Nomenclature of Pathology (SNOP)
- 4. Systematized Nomenclature of Medicine (SNOMED)
- 5. Common Procedures Coding System (HCPCS)
- 6. Current Procedural Terminology
- 7. International Classification of Functioning, Disability and Health (ICF)
- 8. Case-Mix Classifications
- 9. Diagnosis Related Groups
- 10. ICD – 9 (CM)
- 11. ICD – 10
- 12. ICD- Oncology (ICD - O)

#### **XII. Medico-Legal Aspects of the Medical Records**

- 1. Medical Ethics , Hippocratic Oath, and Code of Ethics for the Medical Record Professionals
- 2. Ownership of the Medical Record
- 3. Privileged Communication and confidentiality of Medical Records
- 4. Release of Information: To the Patient , To Authorized Persons /Agencies Legal Implications of release of Information to unauthorized , Persons/Agencies.
- 5. Consents: Different types and their validity, invalidity blanket, and improper consents.
- 6. Corrections in identification data medical documentations
- 7. Rights and responsibilities of patients
- 8. Medical Record in a Court of Law
- 9. Legal requirements in Retention of Medical Records

## **BMRS-2-1 BIOSTATISTICS & HOSPITAL STATISTICS:**

### **OBJECTIVES:**

*On completion of this Course, the students will be able to:*

Define i) General Statistics, ii) Biostatistics iii) Hospital Statistics and, iv) Health Statistics

Define various important Hospital Statistical Terms

Understand the basics of theoretical aspects of General Statistics & Biostatistics; Learn the methods for the collection, presentation, analysis and interpretation of numerical data

Compute data on Admissions & Discharges, monthly analysis of Hospital Performance Statistics and the Daily Inpatient Census;

Compute percentages and rates commonly used in preparation of hospital statistical information;

Describe the role of the Medical Record Practitioner in ensuring accuracy and reliability of statistical Data compiled and presented by the Medical Record Department

### **OBJECTIVES (RESEARCH METHODOLOGY)**

1. Enhance conceptual knowledge in budding researchers.
2. Use conceptual knowledge of Research Methodology in designing and implementing research design.
3. Train researcher to draw better conclusions from the analysis.

## **I. GENERAL & BIO-STATISTICS**

i. **Definition** of Statistics and Biostatistics

ii. **Frequency Distribution:** Measures of Central Tendency – Arithmetic Mean, Median and Mode for un-grouped and grouped data

iii. **Presentation of data:** Bar diagram, . Pie Diagram, Histogram, Frequency polygon, Frequency curve, and Line diagram.

iv. **Measures of Variation:** Range, Inter Quartiles, Mean Deviation, Standard Deviation Co-efficient of Variation

v. **Probability:** Definitions of Classical Probability (Priori) and Frequency, Probability (Posteriori), Addition and Multiplicative Theorems of Probability vi. **Probability Distribution:** Binomial distribution, Poisson distribution and Normal distribution

vii. **Sampling-** Definition: Population and simple Sampling, Simple Random Sampling, Stratified Random Sampling, Systematic Random Sampling and Cluster Sampling

viii. **Correlation and Regression:** Scatter Diagram, Linear Correlation and Linear Regression Equation Test of Significance – Procedure Test of Significance for large samples and for small samples Chi-square Test – Testing for association Misuse of Chi-square Test

## **II. HOSPITAL STATISTICS**

- Definition of hospital statistics, and important Hospital Terms
- Sources of Hospital Statistics – Registers, Medical Records and Daily Ward Census
- Analysis of Hospital Services and Discharges
- Important Rates, Ratio and Percentages with Formula
- Uses and Limitations of Hospital Statistics.



- Hospital Statistics Reporting.

## **VITAL STATISTICS**

- Definition and Uses of Vital statistics
- Methods of Collection of Vital Statistics
- Formulae for processing Vital Statistics:  
Crude Rates    Specific Rate  
Mortality Rates – Crude Death Rate, Specific Death Rates with respect to age , sex etc. Cause-of-death Rates; Infant Mortality Rates; Neonatal Mortality Rates Post-Neonatal Mortality Rate or Late Infant Mortality Rate

## **IV. Health Statistics**

### **i. Introduction**

### **ii. Uses and Sources**

iii. Collection of hospital statistical data: Birth,Death,fetal death,live birth and immature infants,reporting,determination of basic data,daily analysis of hospital service,discharge analysis procedure,cumulative method,monthly and annual reports,computation of percentage (ratios) inpatient census and bed occupancy rate (computerized and manual), presentation of hospital data.

### **iv. Criteria of ill health**

### **v. Classification of healthy and sick**

### **vi. Measurement of morbidity**

## **Research Methods:**

### **1) Research in medicine and health care**

### **2) Clinical research and clinical trials**

### **3) Health record data in research**

### **4) Research process**

#### **a) Defining the research question (problem)**

#### **b) Determining a research design and method**

#### **c) Data collection procedures**

#### **d) Data analysis**

#### **e) Presenting results**

#### **f) Publishing researcher**

#### **g) quality improvement and the use of aggregate data**

h) The role of HIM professionals in quality improvement programs i) Collecting data through questionnaire and Record forms, Methods of collecting data, literature review and steps in research methods Presentation of Data – Bar Diagram; Pie Diagram; Histogram; Frequency, Polygon, Frequency Curve; Cumulative Frequency Curve and Line Diagram.

## **BMRS 2-2 INFORMATION TECHNOLOGY**

### **INTRODCUTION**

Hospitals are highly complex institutions, with thousands of individuals sharing responsibility for the care and services provided to patients. Since medical interventions have expanded exponentially over the past several decades and average length of stay in hospitals has dropped sharply, patients now receive an enormously complex array of services in a much shorter period of time. Effective care and the survival of patients require the management of large amounts of information over a relatively short period of time. Failure to communicate or accurately record information in a timely manner can easily cost the life of a patient. In addition, growing pressures to constrain health care costs have put great pressure on hospitals to be more efficient as well as effective. The survival of a hospital requires the effective management of large amounts of information.

The hospital of the twenty-first century cannot survive without effective information technology. Relatively quickly, information systems and technology have become integral components of health care delivery systems.

#### **Learning Objectives:**

Medical informatics, may defined as the art and science of processing medical information.

#### **Computer Applications and Technologies in Healthcare**

This course provides an overview of healthcare information systems with a concentration on computerized health information management (HIM) functions. Students will be introduced to common software applications utilized to perform HIM processes. Emerging technology issues in healthcare will be explored.

#### **Office Applications**

This course focuses on the concepts and operation of the main components of word processor, electronic spreadsheet, database management, and presentation software programs. Students will gain fundamental knowledge of a major software suite and learn skills that have practical application in real world situations.

#### **Basic ICD-10, ICD-9CM Coding**

This course is designed to introduce the student to medical nomenclature and classification systems. Emphasis will be placed on ICD-9-CM structure, conventions, and guidelines for coding in hospitals and physicians offices.

On completion of this programmes, trainees will have knowledge of accessing and processing biomedical and clinical information, basic principles of patient and hospital data base management (expertise in computing, communications, and content)

#### **1. The Internet**

Define the Internet  
How the Internet works  
Internet capabilities and limitations  
How to connect to the Internet via modem ISDN, etc.  
Navigate the World Wide Web  
Identify services and tools offered on the Internet  
Use services and tools offered on the Internet

Explain book marks  
Safety

## **2. Email**

Define electronic mail  
Compose electronic messages  
Send electronic messages using appropriate format  
Transmit document using electronic mail system

## **3. Basic knowledge of networks**

- Explain communications standards
- Describe network structures
- Explain network types and protocols
- Explain network connectivity
- Explain the function of servers in a graphic network
- Describe various network operating systems
- Explain the difference between network software and individual use software Use a network to access, file, and store files

## **4. Information processing activities**

- Key, process, print and store text and data information using integrated software
- Troubleshoot basic computer malfunctions
- Load media devices
- Set up print devices
- Operate scanner devices
- Operate Print devices
- Maintain print devices
- Monitor peripheral equipment operations

## **Operating Systems**

- Identify operating systems and their attributes (i.e., DOS, Unix, Macintosh, Windows)
- Identify the advantages and disadvantages of the computer to individuals and business.
- Identify the roles and equipment used for input, processing, and output in an information system.
- Identify correct safety procedures

## **Demonstrate basic computer literacy**

- Create directories/folders and sub-directories
- Format disks
- Manipulate files (copy, rename, delete)
- Keyboard proficiently by touch

## **Computer File Manipulation**

- Create data directory and subdirectories/folders and place files in subdirectories/folder. Copy, rename, move and delete files. Copy a disk.
- Make backup disks/files of a data directory or
- Subdirectory/folder and delete data from backup disks/files

**a) Personal computer systems**

- Monitor system status and performance
- Run diagnostics
- Report computer system malfunction(s)
- Report software malfunction(s)
- Maintain security
- Perform backup procedure(s)
- Perform preventive maintenance
- Follow log-off and power-down procedure(s)
- Follow equipment maintenance procedures
- Follow quality control procedures

**b) Maintain computer security requirements**

Follow security rules, regulations, and codes  
Implement security procedures

**c) Software applications**

- Define software types and functions
- Describe need for application software
- Describe different types of software applications
- Explain advantages and disadvantages of integrated and dedicated software Explain software copyright laws
- Explain data compression techniques
- Explain use of passwords/security
- Utilize desktop productivity tools

**e) Operation of peripheral devices**

Identify peripherals and operating requirements of each  
Explain purpose of input devices (e.g., keyboard, mouse, scanners, pens, bar code readers, credit/debit/smart cards, voice, video, gloves)

Describe operation of output devices (e.g. voice, speaker output devices, printers, plotters, printer sharing units, SCSI interface, video display)

Describe operation of multimedia (video, audio sound)

**g) Information Processing Cycle**

Describe difference between data files and program files

**5. Database**

- Define database
- Explain terms used in database systems
- Describe common functions of database systems
- Use database to create, input, edit, and display fields and records
- Analyze structure of database file
- Perform calculations with a data base file
- Alter structure of database file
- Sort records based on multiple fields
- Identify advanced database technology
- Use appropriate reference materials

- Utilize relational database
- Enter elements into database
- Proofread database
- Explain database
- Design report formats
- Transfer data to and from remote database
- Print reports using data from multiple databases
- Use database files with other application software
- Verify accuracy of output (e.g., edit reports)

### **Basic Data Processing**

Input, update and store data into records in an existing database

Open stored spreadsheet, input and update data into spreadsheet, store revised spreadsheet and print revised spreadsheet

### **Database and Spreadsheet Operations.**

Plan and create database, input and update data into records, store database and print quick reports from database.

Create spreadsheet, input data into spreadsheet, update data in spreadsheet and store spreadsheet.

## **6. Introduction to Spread sheet packages**

## **7. Introduction to Word Processing packages**

### **Document processing**

- Key, print and store merge documents (form letters, mailing labels and envelopes)
- Scan documents onto a formatted storage medium and import into a word processing program
- Locate and retrieve information from a variety of electronic sources
- Prepare, place and send information on the internet
- Key, Print and store transparency masters for presentation from legible longhand or edited rough draft using presentation software.

## **9. Basic Computer Concepts and Applications**

- Explain how data is stored in main computer memory.
- Explain how computer system executes program instruction .
- Explain computer storage capacity.
- Explain how data is represented .
- Describe data storage devices .
- Identify types of memory.
- Describe back-up and archival disciplines.
- Merge a database application and a spreadsheet application with a word processing document.
- Use available software to input personal, business, and organizational names in proper indexing order, and produce an alphabetical list.
- Integrate database, spreadsheet and graphic files Convert documents from one system to another.
- Demonstrate use of computer thesaurus.
- Use multimedia techniques/resources Perform merge functions.

## **10. Hospital Information System (HIS) with Electronic Medical Records (EMR)**

### **BMRS 2-3 MEDICAL TERMINOLOGY II**

#### **OBJECTIVES:**

*On the completion of this Course, the students will be able :*

- To know the elements of medical words.
- To develop sense of correctness of medical terms.
- To gain an understanding of standard medical abbreviations.
- To understand the relationship between medical terms and their synonyms in common usage.
- To spell correctly the medical terms, to detect the meaning of unfamiliar medical terms, by analysis into their elements, and to follow directions given in medical phraseology .
- To appreciate the logical order of medical terms, the exactness of concepts in medical terms, and the importance of medical terminology consciousness and continuous study

*All the above characteristics will enable the students in*

- Developing an ability to read and understand medical records and the medical literature;
- Writing terms correctly when abstracting medical records
- **Establishing accuracy in International Classification of Diseases, Surgical procedures which will be useful in statistics, medical billing, and auditing medical insurance claims.**

#### **I. The Cardiovascular System**

1. Pathologic Conditions
2. Hemorrhages and related Conditions
3. Hereditary, Congenital and Developmental Disorders
4. Symptomatic Terms
5. Diagnostic terms
6. Oncology Terms
7. Operative Terms
8. Laboratory Tests and Procedures
9. Standard Abbreviations

#### **II. The Respiratory System**

1. Pathologic Conditions
2. Symptomatic Terms
3. Diagnostic Terms
4. Oncology Terms
5. Operative Terms
6. Laboratory Tests and Procedures
7. Standard Abbreviations

#### **III. The Gastro-Intestinal System**

1. Pathologic Conditions
2. Hereditary, Congenital and Developmental Disorders
3. Symptomatic Terms

4. Diagnostic Terms
5. Oncology Terms
6. Surgical Procedures
7. Laboratory Tests and Procedures
8. Standard Abbreviations

#### **IV. The Genito-Urinary System**

##### **(A). Urinary Tract**

1. Pathologic Conditions
2. Hereditary, Congenital and Developmental Disorders
3. Symptomatic Terms
4. Diagnostic Terms
5. Oncology
6. Surgical Procedures
7. Laboratory Tests and Procedures
8. Standard Abbreviations

##### **(B) Male Reproductive Organs**

1. Hereditary, Congenital and Developmental Disorders
2. Sexually Transmitted Disorders (STD)
3. Symptomatic Terms
4. Diagnostic Terms
5. Operative Procedures

##### **(C) Female Reproductive Organs**

1. Hereditary, Congenital and Developmental Disorders
2. Sexually Transmitted Disorders (STD)
3. Symptomatic Terms
4. Diagnostic Terms
5. Operative Procedures
6. Laboratory tests and Procedures

#### **V. The Endocrine System (Pituitary-Anterior & Posterior: Hypothalamus; Thyroid; Parathyroid;**

Adrenal-Cortex and Medulla; Pineal body; Pancreas; Gonads-Ovaries & Testes & Thymus)

1. Pathologic Conditions
2. Hereditary, Congenital and Developmental Disorders
3. Symptomatic Terms
4. Diagnostic Terms
5. Oncology
6. Surgical Procedures
7. Laboratory Tests and Procedures
8. Standard Abbreviations

## **VI. The Nervous System**

### ***(A). Neurological Disorders***

1. Pathologic conditions
2. Hereditary Congenital and Developmental Disorders
3. Circulatory Disturbances
4. Other Organic Abnormalities
5. Oncology
6. Diagnostic Terms
7. Surgical and other Procedures
8. Laboratory Tests and Procedures

### ***(B). Psychiatric Disorders***

1. Psychiatric Disorders
2. Other Descriptive and Diagnostic Terms
3. Various Tests
4. Treatment Methods for Psychiatric Conditions

## **VII. The Sensory Organs**

### ***(A). Sense of Vision***

1. Pathologic conditions
2. Hereditary, Congenital and Developmental Disorders
3. Diagnostic Terms
4. Operative terms
5. Oncology
6. Vision Tests and Procedures

### ***(B). Sense of Hearing***

1. Pathologic condition
2. Hereditary, Congenital and Developmental Disorders
3. Oncology
4. Surgical Procedures
5. Hearing Tests.

### ***(C). Sense of Smell***

1. Pathologic and Other terms
2. Laboratory Tests

### ***(D). Sense of Taste***

1. Pathologic and Other terms

### ***(E). Touch and Other Cutaneous Senses***

1. Terms referring to these senses

## **BLOCK-XII Multiple-System Diseases**

1. Inflammations and Infections



2. Symptomatic Terms
  3. Diagnostic Terms
  4. Laboratory Tests and Procedures
- 31

### **BMRS 2-4 HEALTH INFORMATION MANAGEMENT 1 & NOMENCLATURE**

Health Information Management serves the healthcare industry and the public by managing, analyzing, and utilizing the data vital for patient care and making the data accessible to healthcare providers. Enhancing individual patient care through timely and relevant information is one of the primary goals for the Health Information Management Technology.

#### **1. Informatics and Health Information Management**

Introduction, Health care delivery systems, Informatics in Health Care, Health Information Management profession, Data and information management, Information systems Development

#### **2. Aggregate Health care data**

Secondary records and Health care database, Clinical classification and Terminologies, Reimbursement methodologies.

#### **Nomenclature**

1. Introduction to Nomenclature
2. Early Nomenclature
3. Specialty Nomenclature
4. Statistical Classifications
5. Other Classifications
6. Choosing a Classification System
7. Encoding Systems
8. Summary

### **BMRS 3-1 International Classification of Diseases(ICD-10) and Surgical Procedures(ICD-9CM), CPT, HCPCS**

Coding of final diagnosis and secondary diagnosis, disease and operation nomenclatures, International Classification of Disease 10, International Classification of Disease – 9CM indexing of patient care data. Introduction and usage of International Classification of Disease in practicals.

International Classification of Diseases

ICD-10, ICD-9 CM (Surgical Procedures)

CPT – Current Procedural Terminology (Introduction)

HCPCS – Healthcare Common Procedure Coding System (Introduction)

ICD-10 - Alpha-numeric coding

Volume 1 – Tabular list

Volume 2 – Instruction manual

Volume 3 – Alphabetical Index

Classification of Diseases according to Clinical Pertinence

ICD-9CM (Procedure) coding – International Classification of Diseases – Clinical modification.

CPT – Introduction of CPT and HCPCS – 3 levels of codes

### **BMRS 3-2 HOSPITAL ORGANIZATION AND ADMINISTRATION, MEDICAL ETHICS & CONSUMER PROTECTION ACT**

#### **I. HOSPITAL ORGANIZATION AND ADMINISTRATION**

##### **1. Introduction to Hospital Administration**

a) Who's Who in hospital – Key administrators and their functions, overview of medical and para-medical specialities, main service departments: b) Overview of health services – government services: private & not for profit: primary, secondary & tertiary health care: types of hospital: community, super – speciality etc.

##### **2. Principles of Organizational Management**

- a) Culture, Values and Mission
- b) Organizational Structure
- c) Planning and Controlling
- d) Hospital Organizational Structures – Government, Private and Not for Profit.

##### **3. Managing People ( Human Resources )**

- a) Overview – scope and functions of HR dept, HR planning
- b) Recruitment and Appointment
- c) Training and Development
- d) Goal setting, rewards systems and motivation
- e) Performance Appraisal
- f) Promotion, internal transfers
- g) Problems and Legal issues
- h) Leadership
- i) Working in teams

##### **4. Clinical Services**

a) Overview of clinical departments and services – OPD, In-patients, ICU, Surgical, Emergency, Community/family Health, Paramedical & Rehabilitation

- b) Types of doctors, their training, roles and responsibilities
- c) The role & responsibilities of the HOD
- d) Medical Audit
- e) Medical Negligence & Litigation

#### **5.Nursing Services and Wards**

- a) Objectives of the nursing service
- b) Nursing service organization, types of nurses, their training, qualifications and functions, other ward staff, personnel issues.
- c) Ward management

#### **6.Product-based services**

- a) Pharmacy purchasing and stores
- b) Pharmacy dispensing
- c) Prosthetics & Orthotics

#### **7.Diagnostic Services (Radiology, Laboratories, Blood Bank etc)**

- a) Overview – main services and their functions
- b) In-house services

#### **8.Patient Services ( non medical )**

- a) Reception, Welcome/Help Desk
- b) Patient facilities, wheelchairs, Ambulances
- c) Public Relations – objectives, functions, policies, different media, methodologies, networking

#### **9.Managing Support Services**

- a) Overview of functions of all support services including Laundry, Catering, Cleaning, CSSD, Transport, Security, Materials ( Purchase and Stores ) etc
- b) Functions of GS Office

#### **10.Hospital Infrastructure ( Buildings and Plant )**

- a) Civil Engineering – Planning and maintaining buildings, water & sewage
- b) Electrical Engineering
- c) Mechanical Engineering, Equipment Maintenance, Medical Gases, etc
- d) Biomedical Engineering

#### **11.Hospital Information Systems**

- a) Analysing information requirements
- b) Reporting systems
- c) Early warning systems
- d) Computerized Systems, intranet

#### **12.Managing the Organization ( putting it all together )**

- a) Planning: strategy and corporate planning
- b) Dealing with risk and uncertainty
- c) Organizational Development and Change management

- d) Corporate Governance & legal matters
- e) Relationships with other institutions and organizations

### **MEDICAL ETHICS & CONSUMER PROTECTION ACT**

This course is designed to provide Medical Record professionals, an advanced knowledge of structure of Indian Judicial system, Basics of Medical laws, Matters relating to Medical Negligence, Medical Ethics and Consumer Protection Act.

This course will equip student with general skills needed in guiding medical professionals to follow required standards of medical documentations to protect the welfare of the health care institution and the patients.

### **COURSE OBJECTIVES:**

At the end of the course student will be able to understand:

- Structure of Indian Judicial System, Medico-legal cases.
- Prevention against complaint of medical negligence
- Negligence as a crime
- Encountering consumer by Medical Professionals
- Code of Medical Ethics
- Rights of patient as a consumer

### **Laws relating to Hospital Administration:**

#### **1. Structure of Indian Judicial System:**

Subordinate courts - Various Tribunals - High court and Supreme court - their working relationships and effect of orders.

#### **2. Medico – legal cases:**

IPC – Medical Termination of Pregnancy Act 1971, Transplantation of Human Organs Act.

#### **3. Law of Contract:**

Patient as a consumer - Law of Tort - Composition of D.C.D.R.F, S.C.D.R.C and N.C.D.R.C - powers, terms and jurisdiction, enforcement of orders.

#### **4. Medical Negligence:**

Negligence - Medical Negligence - Contributory Negligence - Gross Negligence - Criminal Negligence - Onus of Proof - Prevention of such Negligence.

#### **5. Liability and Compensation:**

Vicarious Liability - Liability of Medical Professionals and Para-medical staff - Quantum of Compensation - Applicability of provisions of Consumer Protection Act for various institutions.

#### **6. Consumer Protection Act 1986:**

Various provisions - structure, powers and jurisdiction of various forums constituted in C.P Act - orders - how enforced.

**7.Consent:**

Consent - Medical Consent - various types of Consent - Consent forms - “informed Consent” in clinical trials - Consent as a process - full proof methods for proper Consent - various defects in obtaining Consent.

**8.Important case studies:**

District Forums, State Consumer Disputes Redressal Commission - National Consumer Disputes Redressal Commission Case study as how cases were decided.

### **BMRS 3-3 HEALTH INFORMATION MANAGEMENT II, TRANSCRIPTION & TELEMEDICINE**

Health Information Management serves the healthcare industry and the public by managing, analyzing, and utilizing the data vital for patient care and making the data accessible to healthcare providers. Enhancing individual patient care through timely and relevant information is one of the primary goals for the Health Information Management Technology.

**1. Development of Health Care Information**

Health Care Information standards, Paper based Health Records, Computer based patient records, Ethical issues in Health Information Management

**2. Comparative data**

Research methods, Clinical quality management

**3. Management of Health Information Services**

Principles of Management and Leadership, Work Design and Performance improved, Human Resources Management, Training and Development, Project Management, Strategic Management.

**Medical Transcription:**

- Basics of Medical Transcription
- Objectives of Medical Transcription
- Rules of Medical Transcription
- Advantages of Medical Transcription
- Division of medical words into their component parts
- Forms, Suffixes, Prefixes and Terminology
- Laboratory tests, Clinical procedures and Abbreviations

**Telemedicine:**

- Basic health care
- Classification of Telemedicine
- Technology of Telemedicine
- Objectives of Telemedicine
- Rules of Telemedicine
- Telemedicine Act
- Merits of Telemedicine
- Future Telemedicine plans
- Research

### **BMRSc 3-4 HOSPITAL ACCOUNTING AND FINANCIAL ACCOUNTING AND HEALTH INSURANCE AND BILLING DESIGN**

The course aims to give a fair view of exposure to the students on the basic concepts of accounts, Finance and Financial Management in Hospital and practical application in Hospital Financial Management Accounting and Health Insurance.

#### **1. The Nature and purpose of Accounting, Accounting Concepts & Accounting records:**

- a. What is accounting information? Who needs it? What they need or expect? b. What do accountants do?
- c. Single Entry Book – keeping
- d. Double Entry Book - keeping
- e. What is an Account? Making entries.
- f. Five types of Accounts (Income, Expense, Asset, Liability, Capital) g. Book – keeping rules
- h. Accounting books/ledgers (Nominal, Purchase, Sales, Journal etc) i. Dealing with cash, imprest system

#### **2. Preparation of various Financial Statements:**

- i. Trial Balance
- ii. Receipts and Payments
- iii. Income and Expenditure Account
- iv. Balance Sheet

#### **3. Fixed assets and Depreciation:**

- a. What are fixed assets and why are they different?
- b. What is depreciation and why do we need it?
- c. How do we calculate depreciation? (pros and cons of different methods) d. Accounting entries for depreciation

#### **4. Costing and Pricing:**

- a. Financial accounting Vs. Cost accounting
- b. Key terms: Direct/indirect, fixed/variable/semi-variable
- c. Analysing results: Standard/budgeted/actual
- d. Costing hospital services
- e. Taken action: controllable /uncontrollable
- f. Making decisions: Marginal/book/out –of pocket costs
- g. Reporting costs: Cost Centres, allocation and apportionment of costs h. Pricing methods and decisions.

#### **5. Inventory Accounting:**

- a. Inventory / stocks
- i. Valuation (FIFO, LIFO, WAC etc)
- ii. Optimum balance and reorder levels.

#### **6. Analysis of Financial Statements:**

- a. Ratio analysis – meaning and purposes
- b. Ratios applicable to Non-profit making organizations

#### **7. Financial Planning and Control:**

Budgets and budgetary control

#### **8. Use of Computers in Accounting:**

- a. Computerised ledger systems
- b. Spreadsheets & Excel based accounting

**9. Accounting and Audit Procedures in Health Care Sect**

- a. Accounting System in hospital
- b. Purpose of an audit and auditing principles
- c. What the auditor does?
- d. The audit report – “True and Fair View”
- e. Legal requirements: layout, audit and filing of accounts

**10. Health Insurance and Third Party Payers.****Health Insurance:**

- Definition and history of Health Insurance
- Concepts in Health Insurance
- Issues in Health Insurance
- Effective Health Insurance
- Good & Bad in Health Insurance
- Reasons for lack of coverage
- Denial of claims
- Contracts or Memorandums of Understanding
- Health Insurance in India
- Health Insurance & Third Party Administrators
- Insurance Regulatory Development Authority & its role
- Billing & Health Insurance Billing

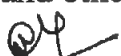
**ORDINANCE NO.87**  
**Establishment under M.P. Act No. 17 of 2007**  
**P G DIPLOMA IN YOGA SCIENCE**

1. **Course Duration:** The Duration of the Course for P G Diploma in Yoga Science shall be one Academic year (Two semesters)
2. a) The Examination shall be held twice a year ordinarily in the month of Nov/Dec and April/May on the dates fixed by the Vice-Chancellor. The dates fixed under this clause shall be notified by the Controller of Examination.  
 b) The last date for application for admission on prescribed form and fee shall be fixed by the Vice-Chancellor from time to time.
3. The minimum qualifications for admission to the course shall be:
  1. A Candidate possessing a graduate or postgraduate Degree in any Stream from a recognized University in India or any equivalent Degree with minimum of 45% marks.
  2. In case of two or more candidates securing equal percentage of marks, preference will be given to that candidate who is having Yoga at under-graduate level; if more than one candidates is having Yoga at UG level with equal percentage then in that case the candidate senior in age will be considered higher in merit.
  3. Bachelor of Physical Education (B.P.E) 3 years degree course/ B.Sc(Physical Education, Health Education and Sports) D.P.Ed. one year after graduation with at least 45% marks in aggregate.

**Note:** The minimum eligibility condition of the 45% marks in the qualifying examination can be relaxed by 5% in case who have won position in Yoga at the Inter-university / Nations levels for Haryana domicile.

**Programme Mode:** Regular

**Selection Criteria**

Selection will be made strictly on the basis of merit score and other weight ages as per University rules approved from time to time. 

- i). A candidate having compartment in qualifying examination shall not be allowed admission in P.G Diploma in Yoga Science even provisionally.
- ii). Maximum marks obtained in graduation or post-graduation examination shall be counted for preparing merit list for admission to P.G Diploma in Yoga Science.



4. The Examination shall be open to a regular student who;
  - i.) Has been on the rolls of the Department/College during the academic year preceding the examination;
  - ii.) Has attended not less than 70% of lectures in theory and in practical's
5. A candidate who has completed the prescribed course of instructions in the Department/College but does not appear in paper(s) or having appeared fails, may be allowed on the recommendation of the HOD/Principle to appear/reappear in the concerned paper(s) as the case may be, in the next regular examination when such examination is held, without attending the classes.
6. The candidate will have to clear the entire exam for successful completion of yoga programme and has to pass the supplementary exam within three year of admission.
7. The Minimum number of marks required to pass the examination shall be 35% in each theory paper, 40% in each practical and 40% in the aggregate.
8. The amount of examination fee to be paid by a candidate shall be as per University rules.
9. The Medium of instructions and writing in examinations shall be English/Hindi
10. After the termination of the examination, Registrar/COE shall notify the results of examination.
11. Each candidate after passing the examination shall be graded as under into three divisions on the basis of aggregate marks obtained in the examination:
  - a) Those who obtains 75% or mare marks : Distinction
  - b) Those who obtain 60% or more marks : First division
  - c) Those who obtain 50% or more marks but less than 60% marks: Second division
  - d) Those who obtain less than 50% marks but more than 40% marks: Third Division
12. The candidate shall be eligible for gold medal in respective subject with highest grade points more than above 60% and the same should not be reappeared in any exam during the course for the academic session.
13. There will be no provision for improvement of marks/Division. However, grace marks will be allowed as per rules of the University.

**ORDINANCE NO.88**  
**Establishment under M.P. Act No. 17 of 2007**  
**M.Sc. IN FACIAL AESTHETICS**  
**(02 Years. Course)**

**1. AIMS & OBJECTIVES**

- 1.1 AIMS : The goal of this program is to produce competent Facial Aesthetics and / or teachers who shall be,
  - 1.1.1 Graduate medical student who is oriented towards training students to undertake the responsibilities of a trained doctor who is Knowledgeable in various AESTHETIC techniques.
  - 1.1.2 With wide range of career opportunities available today, a graduate has a wide choice of career opportunities. The training, though broad based and flexible shall aim to provide an educational experience of the essentials required for health care in our country. Training is designed to meet internationally acceptable standards.
  - 1.1.3 The educational experience shall emphasize health and community orientation instead of only disease and hospital orientation or being-concentrated - on-curative -aspects. In position to repair & restore the lost structure to maintain harmony between both the hard and soft tissues of the oral cavity and facial structure
  - 1.1.4. The methods and techniques that would ensure and Able to manage complications which may arise after Treatment
  - 1.1.5. Every attempt shall be made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he/she begins his independent career and have Skillful to execute the treatment and Knowledgeable in the available materials .
  - 1.1.6 Faculty member shall avail modern educational technology while teaching the students and to attain this objective to Able to asses the predictable long term results.
  - 1.1.7 Institution shall insure that adequate financial and technical inputs are provided.
  - 1.1.8 The Institution shall have a curriculum committee which would plan

- curricula and instructional method which will be regularly updated.
- 1.1.9 Integration of ICT in learning process will be implemented.

## OBJECTIVES

The end of postgraduate program, the medical M.Sc. student should be able to:

- 1.2.1 Recognize 'health for all' as a national goal and health right of all citizens and by undergoing training & fulfill his/her social obligations towards realization of this goal.
- 1.2.2 Learn every aspect of National policies on health and devote himself/herself to its practical implementation.
- 1.2.3 Achieve competence in practice of holistic medicine, encompassing promotive preventive, curative and rehabilitative aspects of common diseases.
- 1.2.4 Develop scientific temper, acquire educational experience for proficiency in profession and promote healthy living
- 1.2.5 Become exemplary citizen by observation of medical ethics and fulfilling social and professional obligations, so as to respond to national aspirations.
- 1.2.6 Be competent in diagnosis and management of common health problems of the individual and the community, commensurate with his/her position as a member of the health team, using his/her clinical & diagnostic skills based on history and relevant investigations.
- 1.2.7 Be competent to practice preventive, promotive, curative and rehabilitative medicine in respect to the commonly encountered health problems.
- 1.2.8 Be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitude towards the patients in discharging one's professional responsibilities.
- 1.2.9 Possess the attitude for continued self learning and to seek further expertise or to pursue research in any chosen area of medicine.

- 1.2.10 Possess the attitude for continued self learning and to seek further expertise or to pursue research in any chosen area of facial aesthetic.
- 1.2.11 Acquire basic management skills in the area of human resources, materials and resource management related to health care delivery, General and hospital management, principal inventory skills and counseling.
- 1.2.12 Be able to identify community health problems and learn to work to resolve these by designing, instituting corrective steps and-evaluating outcome of such measures.
- 1.2.13 Be able to work as a leading partner in health care teams and replace lost natural structures.
- 1.2.14 Be able to make use of conventional techniques/instruments to perform analysis relevant to clinical screening and diagnosis.
- 1.2.15 Be competent to analyze and interpret investigative data.
- 1.2.16 Be able to demonstrate the skill of solving scientific and clinical problems and decision making.
- 1.2.17 Be competent to work in a variety of health care settings.
- 1.2.18 Have personal characteristics and attitudes required for professional life such as personal integrity, sense of responsibility and dependability and ability to relate to restore functional ability, esthetics and develop effective human approach skills and enhance their diagnostic, surgical and restorative skills to disseminate the acquired scientific knowledge of all procedures.
- 1.2.19 All efforts shall be made to equip the postgraduate in facial aesthetic to maintain patients health, educate the patient about the importance of esthetics and acquire knowledge from historical perspective to advancement in the subject proper and related topics.

## 2. COURSE STRUCTURE

### 2.1 Training Period and Time Distribution

2.1.1 This course is module based and each module will be of 3 or 4 days. The whole course programme will contain 12 modules which will be completed within 2 year period.

2.1.2 The initial module is a foundation based, where the students will be familiarized with the basic subjects. There will be dedicated lectures, regular practical and demonstration classes.

2.1.3 After basic module, other modules are devoted to minimal invasive facial aesthetic. Apart from regular lecture and practical classes, there will be group discussions, seminars, journal clubs etc. There will be hands-on training too.

2.1.4 Each student will be given a research thesis topic to provide experience in research methodology.

### 2.2 Module wise syllabus Details

#### 2.2.1 Module 1/2 - Basic Sciences, Skin Anatomy, Blood Derivatives & Research Methodologies

- Head and Neck Anatomy
- Maxilla / Mandible: Osteology, muscle attachments, blood supply & nerve supply / age changes
- Physiology of Aging
- Skin Anatomy - Understand skin in terms of Embryology, structure & function
- To understand affect of aging / habits upon the skin, layers of epidermis, layers of dermis, functions of dermis cells / non cellular elements

- Different types of Fitzpatrick skin types the effect of UV lights on the skin, sun tanning sun damage on the skin , skin ablative treatments , skin non ablative treatments, Lasers , IPL.RF treatments
- Mucosa , Epithelium – Significance
- Temporomandibular joints
- Scalp Anatomy – Blood supply , Nerve supply , layers
- Intraoral structure
- Anesthesia - Face blocks, local infiltration , Intra oral / extra oral / closed mouth
- Collagen induction basic
- Role of Collagen / production of Collagen
- Cellular response, cells responsible for collagen production
- Procedures for collagen production
- Meso-therapy, Microdermabrasion, Microneedling
- Collagen threads
- History /Types of threads
- Use of threads
- Surgical vs Non surgical procedures
- Systemic disease & Diagnosis
- Radiographic interpretation – MRI , CT-Scan , Radiograph
- Neoplasm and types of neoplasm
- Investigations
- Post operative facial scar & Keloid

**Blood derivatives:**

- Concept of Blood derivatives
- Generations / types
- Growth factors in blood
- PRP/ PRF/ I-PRF/ A-PRF / L-PRP and difference in each other
- Cell behaviour in response to centrifugation
- Centrifugation concept
- Clinical use Extra-oral use

**Applications:**

Extra Oral:

Facelift , Scar Treatment , Face Rejuvenation, Dark Circles , Lip Depigmentation  
Combination With Other Procedures, Lasers, Fillers , Implants Use With Stem  
Cells

**Inta-oral:**

Implants, Sinus elevations, socket elevation ,Soft tissues surgery, Hard/soft  
tissue augmenatation

**Research Methodology**

1. Epidemiology & Research
  2. Collection, Analysis, Interpretation & Presentation of Data.
  3. Dissertations & Research Paper Writing
  4. Biostatistics
- Medico-legal aspects of Cosmetic Dermatology
  - Ethics in cosmetic practice

**2.2.2 MODULE 3/4 – Injectables / Applicable Solutions**

- Anatomy of facial pads & Physiological effects of ageing
- Replacement options by natural and artificial
- Dermal fillers
- Introduction, types of fillers ,
- Hyaluronic Acids(HA), different types based upon use and linkage
- Indication/ contraindication of H.A
- Injection procedures ,different manufactures , treatment of complication
- Managing patient expectations
- Non HA fillers - Permanent/ temporary synthetic, Autologous
- Dermal fillers for specific region – lips hands face neck jaw body
- Augmentation of facial fat pads with dermal fillers , aesthetic treatments
- Intraoral uses of dermal fillers, Interpapilla loss , gingival recession , Graft material
- Tissue engineering

**BOTOX**

- Introduction
- Historical milestones related with Botox in all fields
- Types of BOTOX / Basic science of Botox
- Therapeutic uses of BOTOX / Serotypes & Structure
- Storage / Dilution
- Injection technique
- Preoperative / Postoperative assessment
- Complications
- Medical / Dental uses

**CHEMICAL PEEL**

- Introduction
- History of Chemical peel
- Indication / Contraindication
- Chemistry of peels
- Classification of peels
- AHA , BHA , Regional & Subtypes
- Indication and use of separate peels
- Priming/ Post instructions
- Medical use / Dental use
- Complications & Treatment
- French peeling
- Combination procedures
- Ablative procedures / non ablative procedures

Physiology of aging including hormonal changes in testosterone , Growth hormones & the menopause Menopause, andropause & somatopause Hormonal replacement as anti-ageing therapy, Vitamins and anti-ageing, Role of nutrition in anti-ageing , Role of exercise as an anti-ageing strateg, Meso-therapy Lipo solution, role & injection procedures



### 2.2.3 MODULE 5/6 - Hair Restoration & Removal:

- Normal Hair growth Cycles, Hair colour & variations Hair follicle anatomy ,Physiology & pathology and how this related to hair follicle pharmacological treatment pathological /physiological hair fall Systemic conditions related with Hair Growth & hair fall Syndrome associated with hair problems,
- Concept of Hair aesthetics – Hair transplant systems , Biofibers and Artificial system Drug treatment , use , dose , working Non –surgical vs surgical vs Lasers system
- Lasers – types of lasers for Hair removal ,Operating system Complications

### 2.2.4 MODULE 7/8 - Lasers and its Applications

- Introduction
- Types of Laser / Classification
- Application of Lasers
- Ablating / Non Ablating Lasers
- Hard tissue / Soft tissue Lasers
- Reduction of wrinkles, age spots, Melasma , post wrinkle birthmarks, spider veins, Rosacea, Unwanted hair, Removing warts & growths, Diminish scars, Removing Tattoos
- Selections of patients, preparations of patients
- Post treatment / care
- Post surgical scar correction Scar revision
- Complications
- Potential risks
- Follow up

#### **Surgical & Non surgical scar correction**

- Concept of Plastic surgery
- Facial implants
- Rhinoplasty
- Skin grafting
- Selection of area Graft , types of graft
- Selection of patients

- Incision on Face , different procedures, Sutures, Types of sutures
- Concept of Biological glue
- Difference between Conventional vs Bio Glue
- Uses Extraoral / Intraoral

#### **2.2.5 MODULE 9/10 - Stem cells and its Applications**

- Stem cell
- Aesthetic / Regenerative Medicine / Dental
- Introduction
- Concept of Stem cells
- Types of stem cells
- Pre-Examination
- Procedures for Stem cell collections
- Differentiations , amplifications , applications
- Lab processing ,Isolation analysis & concentrations of stem cells in the Lab
- Stem cell implantation
- Anti-aging & Skin Rejuvenation by stem cells
- Bio-fillers for wrinkle fillers
- Body contouring
- Cosmetic gynaecology , Scar & Stretch marks
- Hair loss
- Total body rejuvenation
- Bio –identical hormones
- Nutrition & supplements
- Lifestyle & auto-immune diseases
- Sports injury

#### **2.2.6 MODULE 11/12 - Advance Procedures in Aesthetic Medicine**

- Plasma technologies in Aesthetic Medicine
- Radio frequency devices and procedure
- R.F Mono / Bi-Tripolar
- Ultra Sound based devices
- Acoustic wave therapy ( X-Wave)
- Cellulite reduction device
- Skin lighting treatment

- Mode of actions
- Newest technologies & innovations in Aesthetic medicine

#### **Maxillofacial prosthesis**

- Material used in MFP
- Classification of materials
- Processing methods
- Ear, ocular prosthesis, Eye, Facial prosthesis

### **2.3 Thesis**

Each candidate after passing M.Sc.(Facial Aesthetic) entrance examination shall submit plan for the Thesis/Dissertation on the proposed subject through his/her Guide & the Head of the Institution to the University for registration of the subject within six months. The Thesis/Dissertation shall be submitted to the University at least 04 months before the date fixed for the examination.

The Thesis/Dissertation may relate to the study of series of clinical cases in the same subject specialty or may be research on specific problem.

Approval by the examiner of the thesis submitted by the candidate shall be pre-condition for hire admission to the written part of the M.Sc. (Facial Aesthetic) examination.

The thesis will be evaluated by one external and one main internal examiner.

## **3. Academic Qualification and Selection Criteria for Admission**

### **3.1 Eligibility:**

- Completion of Medical or Dental Degree (MBBS/MD, BDS, MDS) recognized by Medical and Dental Council.
- Other Health Professionals (BHMS/BAMS)
- Having Keen Interest in making Career in Aesthetic Medicine
- Applicant should submit copies of following:
  - Qualification certificates
  - International qualification certificates (If Any)

- Applicants without the above academic criteria but relevant /suitable experience can apply.
- Application will be judged on the individual specifics of background and qualifications including ability to work at postgraduate level

### **3.2 Selection of Students:**

- 3.2.1 Selection of candidates for the M.Sc. course shall be done strictly on merit basis. This will be based on academic performance in qualifying examination by counseling / interview and scrutiny.
- 3.2.2 If a selected candidate does not join the course by the stipulated date, the selection will automatically stand cancelled and the seat will be offered to the first candidate on the waiting list.
- 3.2.3 The decision of the Head of the Institution will be final in matter of selection of candidates and no appeal shall be entertained on this subject.
- 3.2.4 Candidates who are already in service will be required to apply through proper channel along with NOC from the employer.

### **Commencement of Course**

- Course for M.Sc.IN FACIAL AESTHETIC shall commence by OCT/NOV. of the year.

### **Regulation Relating to Assessment of Academic Growth of Students**

- 5.1 Examination Regulations - Essentialities for qualifying to appear in professional examinations. The performance in essential components of training are to

be assessed, based on:

- 5.1.1 Attendance 75% attendance in a subject for appearing in the examination is compulsory inclusive of attendance in non-lecture teaching i.e. seminars, group discussions, tutorials, demonstrations, practicals, hospital posting.
- 5.1.2 Internal Assessment
  - 5.1.2.1 It shall be based on day to day assessment, evaluation of student assignment, preparation for seminar, presentation etc. during each module.
  - 5.1.2.2 An examination shall be conducted after each module.
  - 5.1.2.3 Student must secure at least 35% marks of the total marks fixed for internal assessment in a particular subject in order to be eligible to appear in final University examination of that subject.
  - 5.1.2.4 Internal assessment shall relate to different ways in which students participation in learning participation in learning process during module is evaluated. Some examples are as follows:

Preparation of subject for students seminar, Problem solving exercise, Participation in Project for health care in the community (planning stage to evaluation) and Proficiency in carrying out a practical or a skill in small research project.

Multiple choice questions (MCQ) test after completion of each module.

Each item tested shall be objectively assessed and recorded. Some of the items can be assigned as home work/Vacation work.

## 6. Appointment of Examiners

- 6.1 No person shall be appointed as an examiner in any of the subjects of the Professional examination leading to and including the final examinations for the award of the degree unless he has taken at least five years previously, a doctorate degree of a recognized University or an equivalent qualification in the particular subject as per recommendation of the "Council on teachers eligibility qualifications and has had at least five years of total teaching experience in the subject.
- 6.2 There shall be at least four examiners out of whom not less than 50% must be external examiners. Of the four examiners, the senior most internal examiner will act as the Chairman and co-ordinator of the whole examination program so that sanctity and integrity is maintained throughout the examination.
- 6.3 Non medical scientists engaged in the teaching of medical students as whole time teachers, may be appointed examiners in their concerned subjects provided they possess requisite doctorate (PhD) qualifications and five year teaching experience of medical students after obtaining their doctorate (PhD) qualifications. Provided further that the 50% of the examiners (Internal -& External) are from the medical qualification stream.
- 6.4 External examiners shall not be from the same University and preferably be from outside the state.
- 6.5 The internal examiner in a subject shall not accept external examiner ship for a college from which external examiner is appointed in his subject.
- 6.6 External examiners shall rotate at an interval of 2 years.
- 6.7 There shall be a Chairman of the Board of paper-setters who shall be an internal examiner and shall moderate the questions.
- 6.8 Except Head of the department of subject concerned in a college/institution, all other with the rank of reader or equivalent and above with requisite qualifications and experience shall be appointed internal examiners by rotation in their subjects;

provided that where there are no posts of readers, then an Assistant Professor of 5 years standing as Assistant Professor may be considered for appointment as examiner.

## **7. Examinations scheme (Theory and Practical):**

- 7.1 Theory papers will be prepared by the examiners where nature of questions will be Short Answer Questions (SAQ), Long Answer Questions (LAQ), Essay type,, and Multiple Choice Questions. Marks for each part indicated separately.
- 7.2 Practicals will be conducted. The objective will be to assess proficiency in skills, conduct of experiment, interpretation of data and logical conclusion. Practicals shall take into account common diseases which the student is likely to come in contact in practice.
- 7.3 Viva/oral includes evaluation of management approach.
- 7.4 The examinations are to be designed with a view to ascertain whether the candidate has acquired the necessary for knowledge, minimum skills along with clear concepts of the fundamentals which are necessary for him to carry out his professional day to day work competently. Evaluation will be carried out on an objective basis.
- 7.5 Question papers should preferably be of. short structure/objective type.
- 7.6 During evaluation (both Internal and External) it shall be ascertained if the candidate has acquired the skills as detailed in Appendix-A.
- 7.7 There shall be one main examination in the end of last module and a supplementary to be held not later than 6 months after the publication of its results,
- 7.8 Universities Examinations shall be held as under: -
  - 7.8.1. The examination in M. Sc.(FACIAL AESTHETIC) shall consist of

- a. Thesis
- b. Theory paper
- c. Practical examination & Viva voce
- d. Internal Assessment

**a. Thesis (100 marks):**

Each candidate after passing entrance examination will submit plan for the Thesis / Dissertation on the proposed subject through his/ her Guide & the Head . of the Institution to the University for registration of the subject within four months.

The Thesis/Dissertation will be submitted to the University at least 04 months before the date fixed for the examination. The Thesis/Dissertation may relate to the study of series of clinical cases in the same subject specialty or may be research on specific problem. Approval by the examiner of the thesis submitted by the candidate shall be pre-condition for his admission to the written part of the M.Sc. examination.

The thesis will be evaluated by one external and one main internal examiner.

- b. Theory examination: (each for 100 marks and of 3 hours duration)**  
**THEORY- 100 marks**  
**Paper 1 : FACIAL AESTHETIC**

**c. PRACTICALS:**

- 1. Case presentations-75 marks
- 2. Viva voce-25 mark

- d. Internal assessment**  
 (100 marks) Includes Sessional examinations, record books and day-to-day assessments

<b>Thesis-Viva Voce</b>	<b>100 marks</b>
<b>Paper-1</b>	<b>100 marks</b>
<b>Practical &amp; Viva voce</b>	<b>100 marks</b>
<b>Internal Assessment</b>	<b>100 marks</b>
<b>TOTAL</b>	<b>400 marks</b>



### 7.9 Criteria for passing.

7.9.1 Results of University examinations shall be declared.

7.9.2 Passing in theory as well as practical is compulsory for clearing the course programme.

7.9.3 In order to pass the examination the student must secure a minimum of 50% marks in theory and practicals separately,

7.9.4 Marks of Viva Voce shall be added to Practical.

### 7.10 Division and Merit list

7.10.1 The division shall be awarded only after University examination and shall be based on the aggregate marks obtained by the candidate at his /her successful attempts at M.Sc. in facial aesthetic University examinations. There shall be only three divisions as follows-

- 1st division with honors : 75 % and above
- 1st division 60 % and above but below 75%
- 2nd division : 50 % and above but below 60%

7.10.2 The merit shall be declared by the University after the declaration of result of University examinations. on the basis of the integrated performance of all University examinations.

### 7.11 Condonation of Deficiency in Marks

7.11.1 The grace marks up to a maximum of five marks may be awarded at the direction of the University to a student.

7.11.2 After condonation of marks the result of the concerned University examination shall be declared as "Pass by condonation" or "Pass by grace".

## 8. Revaluation / Re-Totaling

- 8.1 Re-totaling-The University on application and remittance of stipulated fees as prescribed by the University shall permit a recounting or opportunity to recount the marks received for various questions in an answer paper/papers for theory of all subject for which a candidate has appeared in the University examination. Any error in addition of marks awarded, if identified shall be suitably rectified.
- 8.2 Revaluation- Revaluation of theory papers of study of the M.Sc. facial aesthetics course shall be permissible by the University on application and remittance of the prescribed fees within the stipulated time. Such answer scripts shall be reevaluated by not less than two duly qualified examiners and the average obtained shall be awarded to the candidate and the rescrutiny considered accordingly.

## 9. General

- 9.1 The admission of the student at any stage of the study shall be cancelled by the Vice Chancellor based on the recommendation of the head of the institution if
- 9.1.1 He/ She is not found to be qualified or eligible as per University norms and guidelines.
- 9.1.2 He/She is found to have produced false / forged documents or found to have used unfair means to secure admission.
- 9.1.3 He/she is found to be involved in serious breach of discipline in the institution or the University campus
- 9.1.4 The provisions of this ordinance shall change as per the directive of regulatory authority.

**ORDINANCE NO.89**  
**Establishment under M.P. Act No. 17 of 2007**  
**FELLOWSHIP IN FACIAL AESTHETICS**  
**(01 Year Course)**

**1. AIMS & OBJECTIVES**

- 1.1 AIMS : The goal of this program is to produce competent Facial Aesthetics who shall be,
- 1.1.1 Graduate medical student who is oriented towards training students to undertake the responsibilities of a trained doctor who is Knowledgeable in various Aesthetic techniques.
- 1.1.2 With wide range of career opportunities available today, a graduate has a wide choice of career opportunities. The training, though broad based and flexible shall aim to provide an educational experience of the essentials required for health care in our country. Training is designed to meet internationally acceptable standards.
- 1.1.3 The educational experience shall emphasize health and community orientation instead of only disease and hospital orientation or being-concentrated - on-curative -aspects. In position to repair & restore the lost structure to maintain harmony between both the hard and soft tissues of the oral cavity and facial structure
- 1.1.4. The methods and techniques that would ensure and able to manage complications which may arise after Treatment.
- 1.1.5. Every attempt shall be made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he/she begins his independent career and have skillful to execute the treatment and knowledgeable in the available materials.
- 1.1.6 Faculty member shall avail modern educational technology while teaching the students and to attain this objective to able to assess the predictable long term results.
- 1.1.7 Institution shall insure that adequate financial and technical inputs are provided.
- 1.1.8 The Institution shall have a curriculum committee which would plan curricula and instructional method which will be regularly updated.
- 1.1.9 Integration of ICT in learning process will be implemented.

## OBJECTIVES

The end of Fellowship program, the Fellowship students should be able to:

- 1.2.1 Recognize 'health for all' as a national goal and health right of all citizens and by undergoing training & fulfill his/her social obligations towards realization of this goal.
- 1.2.2 Learn every aspect of National policies on health and devote himself/herself to its practical implementation.
- 1.2.3 Achieve competence in practice of holistic medicine, encompassing promotive preventive, curative and rehabilitative aspects of common diseases.
- 1.2.4 Develop scientific temper, acquire educational experience for proficiency in profession and promote healthy living
- 1.2.5 Become exemplary citizen by observation of medical ethics and fulfilling social and professional obligations, so as to respond to national aspirations.
- 1.2.6 Be competent in diagnosis and management of common health problems of the individual and the community, commensurate with his/her position as a member of the health team, using his/her clinical & diagnostic skills based on history and relevant investigations.
- 1.2.7 Be competent to practice preventive, promotive, curative and rehabilitative medicine in respect to the commonly encountered health problems.
- 1.2.8 Be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitude towards the patients in discharging one's professional responsibilities.
- 1.2.9 Possess the attitude for continued self learning and to seek further expertise or to pursue research in any chosen area of medicine.

- 1.2.10 Possess the attitude for continued self learning and to seek further expertise or to pursue research in any chosen area of facial aesthetic.
- 1.2.11 Acquire basic management skills in the area of human resources, materials and resource management related to health care delivery, General and hospital management, principal inventory skills and counseling.
- 1.2.12 Be able to identify community health problems and learn to work to resolve these by designing, instituting corrective steps and-evaluating outcome of such measures.
- 1.2.13 Be able to work as a leading partner in health care teams and replace lost natural structures.
- 1.2.14 Be able to make use of conventional techniques/instruments to perform analysis relevant to clinical screening and diagnosis.
- 1.2.15 Be competent to analyze and interpret investigative data.
- 1.2.16 Be able to demonstrate the skill of solving scientific and clinical problems and decision making.
- 1.2.17 Be competent to work in a variety of health care settings.
- 1.2.18 Have personal characteristics and attitudes required for professional life such as personal integrity, sense of responsibility and dependability and ability to relate to restore functional ability, esthetics and develop effective human approach skills and enhance their diagnostic, surgical and restorative skills to disseminate the acquired scientific knowledge of all procedures.
- 1.2.19 All efforts shall be made to equip the Fellowship in facial aesthetic to maintain patients health, educate the patient about the importance of esthetics and acquire knowledge from historical perspective to advancement in the subject proper and related topics.

## 2. COURSE STRUCTURE

### 2.1 Training Period and Time Distribution

- 2.1.1 This course is module based and each module will be of 3 or 4 days. The whole course programme will contain 06 modules which will be completed within 1 year period.
- 2.1.2 The initial module is a foundation based, where the students will be familiarized with the basic subjects. There will be dedicated lectures, regular practical and demonstration classes.
- 2.1.3 After basic module, other modules are devoted to minimal invasive facial aesthetic. Apart from regular lecture and practical classes, there will be group discussions, seminars, journal clubs etc. There will be hands-on training too.
- 2.1.4 Each student will be given a research thesis topic to provide experience in research methodology.

### 2.2 Module wise syllabus Details

#### 2.2.1 Module 1 - Basic Sciences, Skin Anatomy & Research Methodologies

- Anatomy & Anaesthesia
- Local Anaesthesia Blocks of Head and Neck
- Anatomy of Head and Neck
- Blood supply, Nerve supply
- Skin
- Universal Classification of skin type
- Facial Scale: Measurement of facial skin & soft tissue laxity
- Facial aging & its mechanics
- Peptides for Facial skin aging
- Treatment of Hyperpigmented photodamaged skin
- Chemical peels: Rejuvenation of Neck
- Types of peel Intraoral / Extraoral use

- Combined techniques of Ablative skin resurfacing
- Photorejuvenation
- Electrocoagulation
- Microderma- abrasion
- Medico-legal aspects of Cosmetic Dermatology, Ethics in cosmetic practice
- Epidemiology, Collection, Analysis, Interpretation & Presentation of Data, Dissertations & Research Paper Writing, & Biostatistics
- Medico-legal aspects of Cosmetic Dermatology
- Ethics in cosmetic practice

## **2.2.2 MODULE 2 – Blood Derivatives & Injectables**

### **BLOOD**

- Blood product / Derivative
- Plasma Skin Resurfacing
- Concept of PRP, PRF, IPRF, APRF
- Extraoral & Intraoral use of Blood Derivative
- Application / Use of PRP/PRF
- Face, Skin, Hair, Joints Injections

### **BOTOX**

- Serotypes
- Techniques, Complications
- Extraoral / Intraoral use

### **Mesotherapy**

## **2.2.3 MODULE 3 – Injectable Facial Pads & Threads :**

- **Fillers**
  - a) What are fillers
  - b) Full face lift (8 point lift)
  - c) Complete face points
  - d) Mini facelift
  - e) Facial implants
  - f) Intra oral use of fillers

- g) Lip Augmentation
- h) Nose , chin Augmentation
- **Threads**
  - a) History of sutures/ threads
  - b) Antigravity/ elevation lift
  - c) Biolifting & bioresurfacing
  - d) Types of threads
- **Micro Needling**

#### **2.2.4 MODULE 4 - Hair Restoration / Removal**

- Hair Restoration and Complication
- Aesthetic principles for Hair restoration
- FUE/FUT Method
- Application of FUE Methods
- Mesotherapy for treatment of Male type Alopecia
- Female type Alopecia

#### **2.2.5 MODULE 5 - Advance Procedures in Aesthetic Medicine**

- LASERS
- Radio frequency
- Laser scar removal
- Laser hair removal
- Surgery for prominent Ears

#### **2.2.6 MODULE 6 - Revision**

- 3 days Revision class of all Modules

### **2.3 Thesis**

Each candidate after passing Fellowship in Facial Aesthetic entrance examination shall submit plan for the Thesis/Dissertation on the proposed subject through his/her Guide & the Head of the Institution to the University for registration of the subject within six months. The Thesis/Dissertation shall be submitted to the University at least 04 months before the date fixed for the examination.



The Thesis/Dissertation may relate to the study of series of clinical cases in the same subject specialty or may be research on specific problem.

Approval by the examiner of the thesis submitted by the candidate shall be pre-condition for hire admission to the written part of the Fellowship in Facial Aesthetic examination.

The thesis will be evaluated by one external and one main internal examiner.

### **3. Academic Qualification and Selection Criteria for Admission**

#### **3.1 Eligibility:**

- Completion of Medical or Dental Degree (MBBS/MD, BDS, MDS) recognized by Medical and Dental Council.
- Other Health Professionals (BHMS/BAMS)
- Having Keen Interest in making Career in Aesthetic Medicine
- Applicant should submit copies of following:
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#### **3.2 Selection of Students:**

- 3.2.1 Selection of candidates for the Fellowship course shall be done strictly on merit basis. This will be based on academic performance in qualifying examination by counseling / interview and scrutiny.
- 3.2.2 If a selected candidate does not join the course by the stipulated date, the selection will automatically stand cancelled and the seat will be offered to the first candidate on the waiting list.
- 3.2.3 The decision of the Head of the Institution will be final in matter of selection of candidates and no appeal shall be entertained on this subject.
- 3.2.4 Candidates who are already in service will be required to apply through proper channel along with NOC from the employer.

#### **4. Commencement of Course**

- Course for FELLOWSHIP IN FACIAL AESTHETIC shall commence by OCT/NOV. of the year.

#### **5. Regulation Relating to Assessment. of Academic Growth of Students**

- 5.1 Examination Regulations - Essentialities for qualifying to appear in professional examinations. The performance in essential components of training are to be assessed, based on:
  - 5.1.1 Attendance 75% attendance in a subject for appearing in the examination is compulsory inclusive of attendance in non-lecture teaching i.e. seminars, group discussions, tutorials, demonstrations, practicals, hospital posting.
  - 5.1.2 Internal Assessment
    - 5.1.2.1 It shall be based on day to day assessment, evaluation of student assignment, preparation for seminar, presentation etc. during each module.
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Preparation of subject for students seminar, Problem solving exercise, Participation in Project for health care in the community (planning stage to evaluation) and Proficiency in carrying out a practical or a skill in small research project.

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- 6.1 No person shall be appointed as an examiner in any of the subjects of the Professional examination leading to and including the final examinations for the award of the degree unless he has taken at least five years previously, a doctorate degree of a recognized University or an equivalent qualification in the particular subject as per recommendation of the "Council on teachers eligibility qualifications and has had at least five years of total teaching experience in the subject.
- 6.2 There shall be at least four examiners out of whom not less than 50% must be external examiners. Of the four examiners, the senior most internal examiner will act as the Chairman and co-ordinator of the whole examination program so that sanctity and integrity is maintained throughout the examination.
- 6.3 Non medical scientists engaged in the teaching of medical students as whole time teachers, may be appointed examiners in their concerned subjects provided they possess requisite doctorate (PhD) qualifications and five year teaching experience of medical students after obtaining their doctorate (PhD) qualifications. Provided further that the 50% of the examiners (Internal -& External) are from the medical qualification stream.
- 6.4 External examiners shall not be from the same University and preferably be from outside the state.

- 6.5 The internal examiner in a subject shall not accept external examiner ship for a college from which external examiner is appointed in his subject.
- 6.6 External examiners shall rotate at an interval of 2 years.
- 6.7 There shall be a Chairman of the Board of paper-setters who shall be an internal examiner and shall moderate the questions.
- 6.8 Except Head of the department of subject concerned in a college/institution, all other with the rank of reader or equivalent and above with requisite qualifications and experience shall be appointed internal examiners by rotation in their subjects; provided that where there are no posts of readers, then an Assistant Professor of 5 years standing as Assistant Professor may be considered for appointment as examiner.

#### **7. Examinations scheme (Theory and Practical):**

- 7.1 Theory papers will be prepared by the examiners where nature of questions will be Short Answer Questions (SAQ), Long Answer Questions (LAQ), Essay type,, and Multiple Choice Questions. Marks for each part indicated separately.
- 7.2 Practicals will be conducted. The objective will be to assess proficiency in skills, conduct of experiment, interpretation of data and logical conclusion. Practicals shall take into account common diseases which the student is likely to come in contact in practice.
- 7.3 Viva/oral includes evaluation of management approach.
- 7.4 The examinations are to be designed with a view to ascertain whether the candidate has acquired the necessary for knowledge, minimum skills along with clear concepts of the fundamentals which are necessary for him to carry out his professional day to day work competently. Evaluation will be carried out on an objective basis.
- 7.5 Question papers should preferably be of short structure/objective type.

- 7.6 During evaluation (both Internal and External) it shall be ascertained if the candidate has acquired the skills.
- 7.7 There shall be one main examination in the end of last module and a supplementary to be held not later than 6 months after the publication of its results,
- 7.8 Universities Examinations shall be held as under: -

7.8.1. The examination in FELLOWSHIP IN FACIAL AESTHETIC shall consist of

- a. Thesis
- b. Theory paper
- c. Practical examination & Viva voce
- d. Internal Assessment

**a. Thesis (100 marks):**

Each candidate after passing entrance examination will submit plan for the Thesis / Dissertation on the proposed subject through his/ her Guide & the Head of the Institution to the University for registration of the subject within four months.

The Thesis/Dissertation will be submitted to the University at least 04 months before the date fixed for the examination. The Thesis/Dissertation may relate to the study of series of clinical cases in the same subject specialty or may be research on specific problem. Approval by the examiner of the thesis submitted by the candidate shall be pre-condition for his admission to the written part of the Fellowship examination.

The thesis will be evaluated by one external and one main internal examiner.

**b. Theory**

Examination: (each for 100 marks and of 3 hours duration)

THEORY- 100 marks

Paper 1 : FACIAL AESTHETIC

**c. PRACTICALS:**

- 1. Case presentations-75 marks
- 2. Viva voce-25 mark

**d. Internal assessment**

(100 marks) Includes Sessional examinations, record books and day-to-day assessments

<b>Thesis-Viva Voce</b>	<b>100 marks</b>
<b>Paper-1</b>	<b>100 marks</b>
<b>Practical &amp; Viva voce</b>	<b>100 marks</b>
<b>Internal Assessment</b>	<b>100 marks</b>
<b>TOTAL</b>	<b>400 marks</b>

### 7.9 Criteria for passing.

7.9.1 Results of University examinations shall be declared.

7.9.2 Passing in theory as well as practical is compulsory for clearing the course programme.

7.9.3 In order to pass the examination the student must secure a minimum of 50% marks in theory and practicals separately,

7.9.4 Marks of Viva Voce shall be added to Practical.

### 7.10 Division and Merit list

7.10.1 The division shall be awarded only after University examination and shall be based on the aggregate marks obtained by the candidate at his /her successful attempts at Fellowship in facial aesthetic University examinations. There shall be only three divisions as follows-

- 1st division with honors : 75 % and above
- 1st division 60 % and above but below 75%
- 2nd division : 50 % and above but below 60%

7.10.2 The merit shall be declared by the University after the declaration of result of University examinations. on the basis of the integrated performance of all University examinations.

#### 7.11 Condonation of Deficiency in Marks

- 7.11.1 The grace marks up to a maximum of five marks may be awarded at the direction of the University to a student.
- 7.11.2 After condonation of marks the result of the concerned University examination shall be declared as "Pass by condonation" or "Pass by grace".

#### uation / Re-Totaling

- 1 Re-totaling-The University on application and remittance of stipulated fees as prescribed by the University shall permit a recounting or opportunity to recount the marks received for various questions in an answer paper/papers for theory of all subject for which a candidate has appeared in the University examination. Any error in addition of marks awarded, if identified shall be suitably rectified.

- 8.2 Revaluation- Revaluation of theory papers of study of the fellowship in facial aesthetics course shall be permissible by the University on application and remittance of the prescribed fees within the stipulated time. Such answer scripts shall be reevaluated by not less than two duly qualified examiners and the average obtained shall be awarded to the candidate and the rescrutiny considered accordingly.

## 9. General

- 9.1 The admission of the student at any stage of the study shall be cancelled by the Vice Chancellor based on the recommendation of the head of the institution if
- 9.1.1 He/ She is not found to be qualified or eligible as per University norms and guidelines.
- 9.1.2 He/She is found to have produced false / forged documents or found to have used unfair means to secure admission.
- 9.1.3 He/she is found to be involved in serious breach of discipline in the institution or the University campus
- 9.1.4 The provisions of this ordinance shall change as per the directive of regulatory authority.



**ORDINANCE No. 90**  
**Establishment under M.P. Act No. 17 of 2007**  
**POST GRADUATE DEGREE COURSE IN HOMOEOPATHY**  
**M. D. ( HOMOEOPATHY)**

These general rules are subject to alterations from time to time. The Post Graduate Degree shall be conferred after the acceptance of thesis and passing in examination (Written, Viva and Practical).

**1. PREAMBLE:**

The regulation of the Post Graduate courses in Homoeopathy being conducted by the MALWANCHAL UNIVERSITY, Indore is in accordance with the recommendations of the Central Council of Homoeopathy with an emphasis on the health needs of the State.

**1.1 NOMENCLATURE OF THE DEGREE**

- 1.1.1 MD(HOM)- Doctor of Medicine in Homoeopathy- Materia Medica
- 1.1.2 MD(HOM) - Doctor of Medicine in Homoeopathy- Homoeopathic Philosophy
- 1.1.3 MD(HOM)-Doctor of Medicine in Homoeopathy- Repertory

**2. AIMS AND OBJECTIVES OF COURSES:**

**2.1. GOAL**

The goal of Post Graduate Homoeopathic Medical education shall be to produce competent specialists and /or Teachers.

- 2.1.1 Who shall recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the National health policy.
- 2.1.2 Who shall have mastered most of the competencies, pertaining to the speciality, that are required to be practiced at the secondary and the tertiary levels of the health care delivery system.
- 2.1.3 Who shall be aware of the contemporary advance and developments in the discipline concerned.
- 2.1.4 Who shall have acquired a spirit of scientific inquiry and is oriented to the principles of research methodology and epidemiology.
- 2.1.5 Who shall have acquired the basic skills in teaching of the medical and paramedical professionals.

**2.2 OBJECTIVES**

At the end of the Post Graduate training in the discipline concerned the student shall be able to;

- 2.2.1 Recognize the importance to the concerned speciality in the context of the health needs of the community and the national priorities in the health sector.
- 2.2.2 Practice the speciality concerned ethically and in step with the principles of primary health care.
- 2.2.3 Demonstrate sufficient understanding of the basic sciences relevant to the concerned speciality.

- 2.2.4 Identify social, economic, environmental, biological and emotional determinants of health in a given case, and take them into account while planning therapeutic, rehabilitative, preventive and primitive measure/strategies.
- 2.2.5 Diagnose and manage majority of the conditions in the speciality concerned on the basis of clinical assessment, and appropriately selected and conducted investigations.
- 2.2.6 Plan and advice measures for the prevention and rehabilitation of patients suffering from disease and disability related to the speciality.
- 2.2.7 Demonstrate skills in documentation of individual case details as well as morbidity and mortality rate relevant to the assigned situation.
- 2.2.8 Demonstrate empathy and humane approach towards patients and their families and exhibit interpersonal behaviour in accordance with the societal norms and expectations.
- 2.2.9 Play the assigned role in the implementation of National health programme, effectively and responsibly.
- 2.2.10 Organize and supervise the chosen/assigned health care services demonstrating adequate managerial skills in the clinic/hospital or the field situation.
- 2.2.11 Develop skills as a self-directed learner, recognize continuing education needs; select and use appropriate learning resources.
- 2.2.12 Demonstrate competence in basic concepts of research methodology and epidemiology, and be able to critically analyze relevant published research literature.
- 2.2.13 Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.
- 2.2.14 Function as an effective leader of a health team engaged in health care, research and training.

### 3. COMPONENTS OF THE POSTGRADUATE CURRICULUM:

- 3.1 The major components of the Postgraduate curriculum shall be:-
  - 3.1.1 Theoretical knowledge
  - 3.1.2 Practical and clinical skills
  - 3.1.3 Writing thesis/Research articles
  - 3.1.4 Publishing scientific articles in accredited journals.
  - 3.1.5 Improving attitudes including communication skills.
  - 3.1.6 Training in research methodology, medical ethics including medico legal aspects.
- 3.2 The students undergoing Post Graduate courses shall be exposed to the following:-
  - 3.2.1 Basics of statistics to understand and critically evaluate published research paper.
  - 3.2.2 Lectures related to human behavior studies.
  - 3.2.3 Introduction to the non-linear mathematics.
- 3.3 Course shall comprise:
  - 3.3.1 General subject

- 3.3.2 Man in Health (Holistic concept)
- 3.3.3 Man in Disease (Holistic concept)
- 3.3.4 History of Medicine, Scientific methodology including research methodology and Statistics
- 3.3.5 Special subject
- 3.3.6 Homoeopathic Materia Medica/Homoeopathic Philosophy/Repertory
- 3.3.7 A candidate for MD (Hom) shall opt one of the special subject as his speciality at the time of admission and the degree shall be awarded in that speciality.

#### **4. ACADEMIC QUALIFICATION & SELECTION CRITERIA FOR ADMISSION:**

- 4.1 No candidate shall be admitted to MD (HOM) course unless he possess the degree of:
  - 4.1.1 Bachelor of Homoeopathic Medicine and Surgery or equivalent qualification in Homoeopathy after undergoing a course of study of not less than five and half years duration including one year compulsory internship from a recognised institute by the Apex Council: or
  - 4.1.2 Bachelor of Homoeopathic Medicine & Surgery or equivalent qualification in Homoeopathy included in the Second schedule of the Act, after undergoing a course of study not less than two years duration.
  - 4.1.3 The University or any other committee to be constituted by Government concerned shall conduct the admission process.
  - 4.1.4 Reservation for all categories shall be applicable as per State Government/Central Government policy.
- 4.2 **SELECTION OF STUDENTS**  
The selection of students for the Post Graduate course shall be made based strictly on merit as decided by the Entrance Examination conducted by the competent authority approved by the Government of Madhya Pradesh/MALWANCHAL UNIVERSITY and as per guidelines of the respective Council.

#### **5. DURATION OF COURSE:**

- 5.1 Every candidate seeking admission to the training programme to qualify for the Degree of MD (Hom) in the subjects conducted under the University shall pursue a regular course of study, in the concerned Department under the guidance of a recognized Post Graduate teacher for a period of three years.
- 5.2 The course shall be of three years duration, including one year of house-job or equivalent thereof.
- 5.3 Period of completion of course - Twice the duration of the course or as per Policy decided by the University.

#### **6. MEDIUM OF INSTRUCTION:**

The medium of instruction and examination shall be English.

#### **7. INTAKE & FEES:**

- 7.1 The intake for each of these Programs shall be decided by the Board of Management of the University from time to time subject to the approval of the regulatory body.

- 7.2 Fees of these Programs will be decided by the Board of Management subject to the approval of regulatory body.

**8. ATTENDANCE:**

All the candidates joining the Post Graduate training programme shall work as full time residents during the period of training and shall attend not less than 80 percent of the imparted training during each calendar year including assignments, full time responsibilities and participation in all facets of the educational process. The student will be permitted to avail casual leave as per University norms. Condonation of attendance will be allowed as per policy of University.

**9. TRAINING PROGRAMME:**

- 9.1 Every institution undertaking Post Graduate training shall set up an Academic cell or a curriculum committee, under the chairmanship of a senior faculty, which shall work out the details of the training in each speciality in consultation with other department faculty staff and also coordinate and monitor the implementation of this training programme.
- 9.2 The training programme shall be updated as and when required. The structured training programme shall be written up and strictly followed, to enable the examiners to determine the training undergone by the candidate and the Central council inspectors to assess the same at the time of inspection.
- 9.3 The Post Graduate student shall maintain a record (log book) of the work carried out by them and the training programme undergone during the period of training.
- 9.4 The record book shall be checked and assessed by the faculty members imparting the training, monthly.
- 9.5 The Post Graduate student shall be required to participate in teaching and training programme of undergraduate students and interns.

**10. LOGBOOK:**

Log book serve as a document of the trainee's work. The trainee shall maintain this Logbook of Journal review presentation/Seminar presentation/Clinical works in IPD and OPD/Clinical presentation/Teaching skill practice and Dissertation presentation.

**11. RESEARCH:**

M. D. (Hom) students shall present at least one paper/poster presentation at a State/National conference during their course. Each P.G. student shall present 10 seminar papers, take part in at least 20 seminars/ symposium during the P.G. course and maintain the records of seminar notes/presentations and also he/she should present a paper /participate in at least one national level seminar/conferences.

**12. THESIS:**

Every candidate shall carry out work on an assigned research project under the guidance of a recognized Post graduate teacher as a guide. All Post graduate students should submit a synopsis of the thesis duly attested by the competent authorities in the prescribed proforma within six months after the date of admission. Candidate is required to write a theses or

dissertation on a subject approved by the University of not less than 10,000 (Ten Thousand) words.

Each candidate should submit the dissertation six months prior to the completion of the course. The University will send it to three experts (one internal two external) with instructions to return it within two weeks after valuation.

Dissertation may classified as "Accepted", "Accepted with modifications" or "Rejected". At least two experts should accept the dissertation for it to be considered as accepted. If it is accepted with modifications, the candidate will be given 45 days for correction and resubmission through proper channel. If it is rejected, the candidate will not be permitted to appear for the examination. She/ he should repeat the work and submit within a period of six months. Such dissertations will be valued in the examination Centre itself at the time of practical / clinical examination.

### 13. **OBTAINING ELIGIBILITY CERTIFICATES:**

The University will release the Provisional & Permanent degree certificate only on the receipt of the course certificate issued by the Principal, based on the recommendation of the Head of the concerned department of the course. The course commences from the date on which the first candidate joins the course.

### 14. **EXAMINATION:**

14.1 The examination shall be conducted in two parts namely:

14.1.1 M.D.(Hom) Part I, which is to be held six months after completion of house job of one year's duration.

14.1.2 M.D.(Hom) Part II, which is to be held one year six months after Part I examination.

#### **Part I Examination**

14.2 Every candidate seeking admission to Part I of the examination shall submit application to the University with the following documents, namely:

14.2.1 A certificate from the Principal or Head of the institution about the completion of the course of studies in the subjects in which the candidate seeks admission to the examination; and

14.2.2 A certificate of having completed one year house job in the collegiate hospital.

Viva and practical examination of Part-1 Exam will be conducted by the panel of examiners as below.

Man in health - teachers of Materia medica.

Man in disease - teachers of Repertory

History of medicine & Statistics - teachers of Homoeopathic philosophy .

Case taking and bedside evaluation will be the part of Man in disease with a view to providing experience to prospective internal examiner; Skilled Assistants may be permitted, in concurrence with the External Examiners, to be present in the Examination Hall. The role of skilled assistants, however, shall be confidential, only to carrying out the instructions.

**14.3 Examiners**

- 14.3.1 MD (Hom) Regular degree in concerned subject, (3years of regular study), included in the second schedule of the act.
- 14.3.2 Reader/ Associate Professor with a total teaching experience of not less than seven years in the concerned subject
- 14.3.3 A panel of examiners shall be prepared by the University for a period of 3 years which shall be approved by the Central Council of Homoeopathy  
One of examiners shall be the guide. Minimum number of examiners shall be three, out of which 50% should be external.

**15. CRITERIA FOR PASS:**

A candidate who has secured minimum of 50 percent marks for theory (40 percent separate minimum for each paper), 50 percent for Clinical/Practical including oral shall be declared to have passed in that subject.

A candidate who fails in one subject has to appear only for the failed subjects in M.D. (HOM) Part I & Part II.

**16. MIGRATION AND TRANSFER**

Migration / Transfer of students undergoing any post graduate course shall not be permitted under any circumstances.

**17. SCHEME OF EXAMINATION (COMMON TO ALL SPECIALTIES):****Part I Exam consist of:**

- 17.1 Three theory papers each of not less than three hours duration.
- 17.2 One Practical/Clinical exam including Viva Voce except in Methods of research & statistics Total marks of 100 for Paper I shall be distributed as follows:
- 17.2.1 Applied Anatomy-30 Marks
- 17.2.2 Applied Physiology and Bio- Chemistry- 40 Marks
- 17.2.3 Concept of Health and Psychological Organization of Man- 30 Marks
- In case of Paper I (Man in Health) and Paper II (Man in Disease) out of 100 Marks for Viva/Clinical, Marks allotted shall be
- 17.3 50% Marks will be based on clinical case (bed side)

**17.4 50% Marks General Viva Voce (Theory)**

Paper	Section	Subject	Duration Of hour	Distribution Of Marks				
				Theory		Viva Voce/Clinical		Total
				Maximum	Minimum			
Paper I	Nil	Man in Health	3	100	50	100	50	200
Paper II	Nil	Man in Disease	3	100	50	100	50	200
Paper III	A	History of Medicine	1 ½	50	50	50	25	150

	B	Method of Research and Statistics	1 ½	50		Nil	
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No separate minimum for Section A Section B. of paper III. (Theory)

Viva Voce / Practical Examination in each general subject to be held by not less than three examiners together out of which one shall be the Guide/ Supervisor

#### 7.5 Division of marks for theory examinations:

##### 17.5.1 Man in health – 100 marks

17.5.1.1 Anatomy -25 marks

17.5.1.2 Physiology including bio-physics – 25 marks

17.5.1.3 Bio-chemistry – 25 marks

17.5.1.4 Psychology – 25 marks

##### 17.5.2 Man in disease – 100 marks

17.5.2.1 General pathology – 25 marks

17.5.2.2 Systematic pathology – 25 marks

17.5.2.3 Microbiology – 25 marks

17.5.2.4 Susceptibility and miasmas -25 marks

##### 17.5.3 History of Medicine and Statistics and Research Methodology – 100 marks

17.5.3.1 History of medicine -40 marks

17.5.3.2 Statistics and Research Methodology – 60 marks

#### 17.6 Method of conducting Practical and Viva voce Examinations:-

17.6.1 There will be one long case and one short case in the practical.

17.6.2 The long case will test the capacity to size up a chronic clinical problem, define it homeopathically, plan the treatment and estimate the prognosis – all these based on sound rational principles of philosophy.

17.6.3 The short case will assess candidate's approach to clinical problem, skills to quickly define it and suggest alternative plans for resolving the same within the limited resources at-command. Thus the power of observation and interpretation will be examined. The process of examinations will be observed and questioned.

17.6.4 The viva-voce examination will aim to cover the entire syllabus seeking to assess candidate's knowledge in depth including the dissertation work.

17.6.5 The long case will carry 70% of the allotted marks and short case will carry 30%. Each step will be marked separately thus stressing the importance of the capacity to think through a clinical problem in a systematic way.

#### Part II Examination

#### 17.7 Part II examination to be held One year and six months after Part I examination.

17.7.1 Every candidate applying for Part II examination shall prepare and submit four printed or typed copies of dissertation of not less 10,000 words embodying his own research and contribution in advancing the knowledge in the subject to the university for approval, not later than six months prior to the holding of Part II examination.

17.7.2 The dissertation shall be submitted to the guide at least three months before the time fixed for submitting it to the University and the Guide shall certify

the work has not been previously formed the basis of award of any Post Graduate Degree in Homeopathy and that work is the record candidate's personal efforts and submitted to the University duly countersigned by the Guide.

Each candidate should submit the dissertation six months prior to the completion of the course. The University will send it to three experts (one internal two external) with instructions to return it within two weeks after valuation.

Dissertation may classified as "Accepted", "Accepted with modifications" or "Rejected". At least two experts should accept the dissertation for it to be considered as accepted. If it is accepted with modifications, the candidate will be given 45 days for correction and resubmission through proper channel. If it is rejected, the candidate will not be permitted to appear for the examination. She/ he should repeat the work and submit within a period of six months. Such dissertations will be valued in the examination center itself at the time of practical / clinical examination.

17.8 Every candidate applying for Part II examination shall submit an application to the University with the following.

17.8.1 A certificate showing that he/she has passed the Part I exam.

17.8.2 A certificate from the guide/ Head of institution about the completion of studies in the subject concerned.

**Part II Exam consist of**

17.8.3 Three theory papers each of not less than three hours duration.

17.8.4 One Practical/Clinical exam including Viva Voce in the subject of specialty to assess the candidate's acumen & his ability & working knowledge in the practice of specialty.+

#### **Scheme of examination**

Subject	Marks				
	Theory	Viva	Practical/Clinical	Total	Pass Marks
Paper I	100	100	100	500	250
Paper II	100				
Paper III	100				

#### **18. DECLARATION OF RESULTS:**

All the examiners shall jointly assess the knowledge of the candidate for recommending the result to the University.

For Part I & Part II exams, Board of examiners shall convene a meeting after the completion of Viva Voce/ Practical examination to finalize the results and to recommend to the University that a candidate may be declared as passed or failed.



For Part I & Part II examinations, a candidate who fails in any of the three general subjects or special subjects shall be declared to have failed in that subject or subjects only, and he shall have to appear for the failed subject or subjects only on subsequent appearance in the examination.

A candidate who failed in the examination may appear again in the next examination without undergoing further course of study.

**19. CONDONATION OF DEFICIENCY IN MARKS:**

The grace marks shall be allowed according to the general ordinance relating to "Award of Grace Marks".

**20. REVALUATION/ RE-TOTALING:**

20.1 Re-totalling- The university on application and remittance of stipulated fees as prescribed by the university shall permit a recounting or opportunity to recount the marks received for various questions in an answer paper/papers for theory of all subjects for which a candidate has appeared in the university examination. Any error in addition of marks awarded, if identified shall be suitably rectified.

20.2 Revaluation- Revaluation of theory papers in all years of study of the MD(Homoeopathy) course shall be permissible by the university on application and remittance of the prescribed fees within the stipulated time. Such answer scripts shall be re-evaluated by not less than two duly qualified examiners and the average obtained shall be awarded to the candidate and the result reconsidered accordingly.

**21. CANCELLATION OF ADMISSION:**

Admission of a student may be cancelled under following circumstances.

21.1 At any stage, if student is not found qualified, for the Program, as per government norms/ guidelines or the eligibility criteria prescribed by the University.

21.2 Failing to complete the program within six years of commencement of the program.

21.3 Involvement in gross indiscipline in the Institute / University.

21.4 He/ She is found to have produced false/ forged documents or found to have used unfair means to secure admission.

**22. GENERAL:**

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of differences of interpretation, the Vice Chancellor may take a decision after obtaining, if necessary, the opinion / advice of a committee consisting of any or all the Dean/Director/Principal/Head of Department/ Institutions / Constituent College/Schools. The decision of the Vice Chancellor shall be final.

**Ordinance No. 91****(Established under MP Act No. 17 of 2007)****MASTER OF SCIENCE (M.Sc.) IN MEDICAL ANATOMY, MEDICAL  
PHYSIOLOGY, MEDICAL PHARMACOLOGY****1.0 AIM AND OBJECTIVES:**

- 1.1 The overall aim of this course is to develop expertise in the field of basic health sciences. A process of rational thinking and cogent action will be inculcated in an individual so that her/she shall be competent to pursue various activities as demanded by any professional
- 1.2 The objectives of this course are to prepare post graduate student in the subject of Medical Anatomy, Medical Physiology, and Medical Pharmacology under the faculty of medicine who shall
  - 1.2.1 Teach and train future undergraduate and postgraduate medical students in basic medical subjects in Medical Colleges and Research Institutions.
  - 1.2.2 Carry out and guide, contribute to research advancement of the subject.
  - 1.2.3 Organize and manage administrative and clinical responsibilities for routine day-to-day departmental work.
  - 1.2.4 Developing human resource for government organization and industries.

**2.0 APPLICABILITY:**

- 2.1 This ordinance shall apply to the programme and courses leading to the award of postgraduate degrees of Master of Science in Medical Anatomy, Medical Physiology, and Medical Pharmacology under the Faculty of Medicine. These courses will be similar to that of M.D. examination.

**3.0 DEFINITIONS:**

- 3.1 Academic Year: Duration of course shall be of 3 Years from the date of admission.
- 3.2 Course An Academic programme and/or component, carrying a distinctive code.
- 3.3 External Examiner Examiner not in the employment of the University
- 3.4 Programme: Programme of courses and/or other components leading to the award of degree of Master of Science in medical subjects like in the subject of Medical Anatomy, Medical Physiology, and Medical Pharmacology.
- 3.5 Regular Student: A student who is enrolled in a constituent institution for the purpose of obtaining a Degree/Diploma/Certificate/other recognized education credential to receive education on a full time basis on payment of tuition fee.
- 3.6 University: Malwanchal University, Indore, Madhya Pradesh.

**4.0 ADMISSION:**

- 4.1 Candidates possessing following minimum qualification shall be eligible for admission.
- 4.1.1 Graduate with MBBS/BDS/BPT/B Pharma/B.Sc Biology (Le Zoology/Botany as major paper) from a recognized university with minimum aggregate 50% marks in aggregate at the qualifying examination (Relaxation as per norms) MBBS shall be preferred
- 4.2 Admissions shall be according to the following criteria:
  - 4.2.1 Merit prepared on the basis of mark obtained in the qualifying examination/interview or test conducted by University or an agency on its behalf.
- 4.3 Last date for admission will be as notified by the University.
- 4.4 Admission of Foreign Nationals/ NRI/ PIO shall be as per policy/rules as applicable.
- 4.5 Candidate who has already appeared in the last year examination of Graduate programme may be considered for admission, if he/ she have successfully passed last year examination Such candidate shall be admitted provisionally and shall be required to submit, certificate and mark sheet as proof of passing qualifying examination, within three months of commencement of the programme. Otherwise his/her admission shall be cancelled. Such candidate shall not be eligible for refund of fees.
- 4.6 Candidates who are already in service will be required to apply through proper channel along with NOC from the employer.
- 4.7 If a selected candidate does not join the course by the stipulated date, the selection will automatically stand canceled and the seat will be offered to the first candidate on the waiting list.

**5.0 COMMENCEMENT & DURATION:**

- 5.1 The programme shall generally commence in July/August every year.
- 5.2 Master of Science in medical subjects shall be a fulltime programme and duration is three academic years (36 months). No exemption shall be given from this period of training of three years for any other experience or diploma. All the courses of study will be executed under the guidance and the supervision of the recognized Post graduate teachers in the respective subjects.

**6.0 MEDIUM OF INSTRUCTION**

- 6.1 English shall be the medium of instruction and examinations.

**7.0 ATTENDANCE:**

- 7.1 Regular students, to be eligible to appear in the University examination, are required to attend a minimum of 80% theory and practical classes inclusive of non-lecture teaching i.e. seminars, group discussions, tutorials, demonstrations, clinical/hospital posting.

**8.0 EXAMINATIONS:**

- 8.1 University Examinations shall be held at the end of each part.
- 8.1.1 After completion of one academic year, M. Sc. Part-I examination will be conducted. No student shall be permitted to join M.Sc Part-II training until he/she passed in all the subjects of M.Sc. Part-1 examination
- 8.1.2 After completion of total three academic years, M. Sc. Part-II final university examination will be conducted and if any changes in examination schime will be approved by Academic Council.
- 8.1.3 The dissertation is compulsory for candidates registered for P.G. degree and should include candidates own work under a supervisor, qualified for the purpose and recognized as a PG teacher by the university, after six months of admission The subject of dissertation along with synopsis (about 200 words) signed by PG teacher H.O.D. and Head of the Institution will be submitted within six months of admission to the University Ethics Committee of the Institution must approve the topic of dissertation Completed dissertation will be submitted to the university that is, six month before the date of final examination
- 8.1.4 The Candidate shall publish at least one research paper in National or International Indexed medical research journal, or submit the evidence of acceptance of paper, related to his/her subject/dissertation topic, before submission of final dissertation to the university
- 8.1.5 The dissertation shall be examined by a minimum of three examiner one internal and two external examiners. A candidate shall be allowed to appear for the Theory and Practical/Clinical examination only after the acceptance of the dissertation by the examiners
- 8.1.6 Theory and Practical/Clinical examination for the subjects including basic medical sciences shall be conducted to test the knowledge and competence of the candidates for making valid and relevant observations based on the experimental/Laboratory studies and his ability to perform such studies as are relevant to his subject.
- 8.1.7 The Oral examination shall be thorough and shall aim at assessing the candidate knowledge and competence about the subject, investigative procedures, therapeutic technique and other aspects of the specialty, which form a part of the examination\
- 8.2 The university shall conduct not more than two examinations in a year Le one main and another supplementary, with an interval of not less than 4 and not more than 6 months.
- 8.3 Details of subjects and course curricula shall be prescribed by the scheme of examination, prepared and proposed by BOS/HOF and approved by Academic Council.

**9.0 HEAD OF PASSING & PASSING CRITERIA:**

- 9.1 A candidate shall secure not less than 50% marks in each head of passing which shall include (1) Theory, (2) Practical Including clinical and viva voce examination.

**10.0 APPOINTMENT OF UNIVERSITY EXAMINERS:**

**10.1** Examiners, Paper Setters, Evaluators, Re-evaluators etc. for Question Papers setting, Practical Examinations, Project work, Viva-voce examination and valuation of answer book etc. shall be faculties of Malwaichal University or from any recognized College / University, with minimum eight years teaching experience after obtaining his/her post graduate degree in the related subject. Preferably 50% of them shall be external-examiners. They shall be nominated by the University from a panel submitted by the Head of Faculty.

**10.2** Assistant Professor (s) with required minimum teaching experience / Associate Professor(s)/ Professor (s) of the University shall be nominated as Internal Examiners/Moderators etc. by the University based on the recommendations of the Head of Faculty / Institution as follows:

**10.2.1** All the Post Graduate Examiners shall be recognized Post Graduate Teachers holding recognized Post Graduate qualifications in the subject concerned.

**10.2.2** For all Post Graduate Examinations, the minimum number of Examiners shall be four, out of which at least two (50%) shall be External Examiners, who shall be invited from other recognized universities.

**10.2.3** No person shall be appointed as an Internal/external examiner in any subject unless he/she has three years experience as recognized PG teacher in the concerned subject.

## **11.0 DIVISION**

**11.1** The division shall be awarded only after Part II university examination and shall be based on the aggregate marks obtained by the candidate at his/her successful attempts at the first and second part of University examinations. There shall be only three divisions as follows:

First division with honors	75% and above
First division	60% and above but below 75%
Second division	50% and above but below 60%

## **12.0 MERIT/RANK**

**12.1** The merit shall be declared by the university after the declaration of result of second Part University examinations On the basis of the integrated performance of all university examinations. The merit list shall include first five candidates securing at least first division and passing all University examinations in single attempt

## **12.0 CANCELLATION OF ADMISSION**

**12.1** Admission of a student may be cancelled under following circumstances:

**12.1.1** At any stage, if student is not found qualified for the programme, as per norms/ guidelines or the eligibility criteria prescribed by the University rules.

भोपाल, दिनांक 6 मार्च 2024

क्र. आर-163-सीसी-19-अइतीस.- मध्यप्रदेश निजी विश्वविद्यालय (स्थापना एवं संचालन) अधिनियम, 2007 की धारा 29(1) के अनुक्रम में, मंदसौर निजी विश्वविद्यालय, मंदसौर के संशोधन अध्यादेश क्र. 30 एवं पश्चात्पूर्ती अध्यादेश क्रमांक 49 एवं 50 तक के साधारण राजपत्र में प्रकाशन राज्य शासन के निर्देशों के अनुसार अधिनियम, 2007 की धारा 35 अनुसार प्रकाशित किया जाता है। संस्था के उक्त अध्यादेश प्रकाशित होने की तारीख से प्रवृत्त होंगे।

संशोधन अध्यादेश क्र. 30 एवं पश्चात्पूर्ती अध्यादेश क्रमांक 49 एवं 50

मध्यप्रदेश के राज्यपाल के नाम से तथा आदेशानुसार,

वीरन सिंह भलावी, अवर सचिव.

**Mandsaur University**

**ORDINANCE No. 30**

**Bachelor of Arts (B.A)**

(This ordinance is framed as per the "Guidelines for multiple entry and exit in Academic programmes offered in Higher Education Institutions" issued by UGC, under NEP 2020)

**30.1 Title of the Degree : Bachelor of Arts**

**30.2 Faculty Name : Faculty of Arts**

**30.3 Course Name : Bachelor Degree**

**30.4 Duration of the Course:** The provisions of this ordinance shall apply to the three year/six semester Bachelor's Degree or four years/ eight semester Bachelor's Degree (Honors/Research) in undergraduate programme Bachelor of Arts in Music, Interior Design, Fashion Design, Tourism & Hospitality, Journalism and Mass Communication, Economics, Political Science, Sociology, English literature, Hindi literature

The maximum duration for completing the Undergraduate Degree and Undergraduate Degree (Honors/Research) Programme for regular students shall be 6 and 8 years, respectively.

**30.5 Eligibility for Admission:**

This course shall be open to candidates who have passed 10 +2 exam with relevant subjects from any recognized Board or equivalent examination form a Statuary Institution.

OR

Any other examination Recognized by the Board of Management of this University as an Equivalent Courses/ Examination thereto, from time to time.

**30.6 Eligibility for Admission to NRI/ Other Privileged Candidates: -**

Non-Resident Indian & other privileged candidates shall be eligible for admission to the course for accordance with the directives of Govt. of India and or State Government.

**30.7 Admission Procedure: -**

The Eligible candidate specified in clauses of Course wise ordinances, should secure a place in the merit list prepared on the basis of academic credentials or through the university entrance test/ Merit list of received applications.

**30.8 Intake: -**

The Intake and fees for the course shall be decided by the Board of Management of the University from time to time, subject to approval by the concerned Regulatory Body.

**30.9 Academic Cycle / Years: -**

There will be two academic cycles (Semester System) for the course every year as decided by the University.

**30.10 Entry and Exit System**

To enable multiple entry and exit points in the academic programme, qualifications such as certificate, diploma, and degree shall be organized in a series of levels in an ascending order from level 5 to level 8. Level 5 represents certificate and level 8 represents Bachelor Degree (Honors/Research) qualification (Table-1).

**Table -1: Qualification Type and Credit Requirements**

Levels	Qualification title	Credit required
Level 5	Undergraduate Certificate in the faculty of the Major Subject for those who exit after the first year (two semesters) of the undergraduate programme (Programme duration first year on two semesters of the under graduate programme)	40
Level 6	Undergraduate Diploma in the faculty of the Major Subject for those who exit after two years (four semesters) of the undergraduate programme (Programme duration First two years or four semesters of the undergraduate programme)	80
Level 7	Bachelor Degree in the faculty of the Major Subject (Programme duration Three years of six semesters)	120
Level 8	Bachelor Degree in the faculty of the Major Subject (Honors/Research) (Programme duration Four years of eight semesters)	160

**30.11 Credit System**

The credits will be awarded by the University. The credit can be calculated as follows.

- One hour of theory or one hour of tutorial or two hours of laboratory work per week for 15 weeks resulting in the award of one credit.
- Credits for internship shall be one credit per week of training. Subject to a maximum of six credits in a semester.

**30.12 Course Structure**

Each of the subject/categories (i) to (v) as specified in 30.10 shall comprise of courses. Courses are the basic units of education and/or training. Types of courses shall be as follows:

**30.12.1 Core Course:** Such courses which shall compulsorily be studied by the student as core requirements of the programme

**30.12.2 Elective Course:** Generally, a course which the student can choose from a pool of courses, which is specific or specialized at advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables an exposure of some other discipline/domain to nurture the candidate's proficiency or skill is called an Elective Course.

**30.12.2.1 Discipline Specific Elective (DSE) Course:**

Elective courses offered from the main discipline/subject of study are referred to as Discipline Specific Elective the University may also offer discipline related Elective courses of interdisciplinary nature (to be offered by main discipline/subject of study)

**30.12.2.2 Dissertation/Project**

An elective course designed to acquire special/advance knowledge, such as supplement study/support study to a project work, and student studies such a course independently with advisory support by a teacher/faculty member is called dissertation/project. It is considered a special course involving the application of knowledge in solving/analyzing/exploring a real-life situation/difficult problem for a bachelor degree with honors/research A Project/Dissertation work would be of credits, as decided by the competent body. The student will do this work under the guidance of a faculty member.



**30.12.3 Generic Elective (GE) Course**

An elective course chosen generally from an unrelated discipline/subject to seek exposure of other fields is called a Generic Elective course.

**30.12.4 Ability Enhancement Courses (AEC):**

The Ability Enhancement Courses (AEC) are of two types

- Ability Enhancement Compulsory Courses (AECC)
- Skill Enhancement Courses (SEC) or Vocational Courses

“AECC” courses are the courses based upon the content that leads to knowledge enhancement, such as,

- Environmental Education
- English/Hindi Communication is mandatory for all disciplines.

“SEC” courses are value based/skill-based to enhance skills of the Major Subject. They are aimed to provide hands on training competencies, skills, etc

*The syllabus for a specific programme will be decided by the concerned Board of studies of the University/Autonomous College based on the curriculum issued by the UGC under LOCF with maximum deviation of 20%.*

**30.13 Passing Standards**

Level	Semester	Minimum Credit Requirement					
		Major subject	Minor subject	Generic Elective	Ability Enhancement	Vocational	Field/ Internship
Certificate	First	6	4	4	4	-	-
	Second	6	4	-	4	4	4

Level	Semester	Minimum Credit Requirement					
		Major subject	Minor subject	Generic Elective	Ability Enhancement	Vocational	Field/ Internship
Diploma	Third	6	4	4	4	-	-
	Fourth	6	4	-	4	4	4

Level	Semester	Minimum Credit Requirement					
		Disciplinary Elective	Minor subject	Generic Elective	*Ability Enhancement	Vocational	Field/ Internship
Degree	Fifth	6	4	4	4	-	-
	Sixth	6	4	-	4	4	4

\* Ability enhancement shall not be mandatory if student opt for Hons/Research degree and the grade points shall be replaced from ability enhancement to Project Work in fifth and sixth semesters.

Level	Semester	Minimum Credit Requirement		
		Disciplinary Electives	Research Methodology/ Dissertation	Field/ Internship
Honors/ Research	Seventh	12	6	-
	Eighth	6	4	12



**Percentage:** For passing a semester examination and for promotion to the next semester (from 1<sup>st</sup> to 8<sup>th</sup> Semester) a student shall have to obtain a minimum of 50% marks in each paper separately of Theory and Practical Examinations including dissertation / thesis / project work (wherever applicable) The division shall be declared on the basis of total marks scored in all the six semesters as follows.

- First division with honor, where student score 75 % or more marks
- First division, where student score 60% or more marks
- Second division, where student score 50% above but less than 60 % marks

#### 30.14 Medium of Instruction & Examination: -

The Medium of Instruction during the Examination shall be English/ Hindi.

#### 30.15 Examination: -

Examination will be conducted as per Ordinances 4 & 5 of Mandsaur University as per the Regulations made in this respect as described in the Scheme of examination promotion to subsequent semesters and course of studies shall be as per the recommendation of the concerned Board of Studies with due approval of Academic Council. The Examination pattern shall be CBCS with continuous assessment of students. The passing criteria will be 50% including internal exam for both theory and practical separately. The Studies and examination of the course shall be basis on the marks/marks cum credit / credit system as recommended by Board of Studies from time to time.

#### 30.16 Attendance Requirement:

A candidate must have at least 75% attendance in each semester, provided that, in case of illness or because of other reasonable cause, it shall be relaxed by Vice Chancellor as up to 15% admissible within applicable regulation.

#### 30.17 General Instructions: -

- For matters not covered in this specific ordinance, general rules and regulations of Mandsaur University, regarding specific courses shall be applicable. In other matters Board of Management of Mandsaur University shall be competent to take any decision which shall be final.
- Other guidelines as described in NEP 2020 shall be followed.

**ORDINANCE No. 49****Bachelor in Physical Education and Sports**

(This ordinance is framed as per the "Guidelines for multiple entry and exit in Academic programmes offered in Higher Education Institutions" issued by UGC, under NEP 2020)

**51.1 Title of the Degree** : Bachelor in Physical Education and Sports

**51.2 Faculty Name** : Faculty of Education

**51.3 Course Name** : Bachelor Degree

**51.4 Duration of the Course:** The provisions of this ordinance shall apply to the three year/six semester Bachelor's Degree or four years/ eight semester Bachelor's Degree (Honors/Research) in undergraduate programme Bachelor in Physical Education and Sports.

The maximum duration for completing the Undergraduate Degree and Undergraduate Degree (Honors/Research) Programme for regular students shall be 6 and 8 years, respectively.

**51.5 Eligibility for Admission:**

This course shall be open to candidates who have passed 10 +2 exam with relevant subjects from any recognized Board or equivalent examination form a Statuary Institution.

OR

Any other examination Recognized by the Board of Management of this University as an Equivalent Courses/ Examination thereto, from time to time.

**51.6 Eligibility for Admission to NRI/ Other Privileged Candidates: -**

Non-Resident Indian & other privileged candidates shall be eligible for admission to the course for accordance with the directives of Govt. of India and or State Government.

**51.7 Admission Procedure: -**

The Eligible candidate a specified in clauses of Course wise ordinances, should secure a place in the merit list prepared on the basis of academic credentials or through the university entrance test/ Merit list of received applications.

**51.8 Intake: -**

The Intake and fees for the course shall be decided by the Board of Management of the University from time to time, subject to approval by the concerned Regulatory Body.

**51.9 Academic Cycle / Years: -**

There will be two academic cycles (Semester System) for the course every year as decided by the University.

**51.10 Entry and Exit System**

To enable multiple entry and exit points in the academic programme, qualifications such as certificate, diploma, and degree shall be organized in a series of levels in an ascending order from level 5 to level 8. Level 5 represents certificate and level 8 represents Bachelor Degree (Honors/Research) qualification (Table-1).

**Table -1: Qualification Type and Credit Requirements**

Levels	Qualification title	Credit required
Level 5	Undergraduate Certificate in the faculty of the Major Subject for those who exit after the first year (two semesters) of the undergraduate programme (Programme duration first year on two semesters of the under graduate programme)	40
Level 6	Undergraduate Diploma in the faculty of the Major Subject for those who exit after two years (four semesters) of the undergraduate programme (Programme duration First two years or four semesters of the undergraduate programme)	80

Level 7	Bachelor Degree in the faculty of the Major Subject (Programme duration Three years of six semesters)	120
Level 8	Bachelor Degree in the faculty of the Major Subject (Honors/Research) (Programme duration Four years of eight semesters)	160

### 51.11 Credit System

The credits will be awarded by the University. The credit can be calculated as follows.

- One hour of theory or one hour of tutorial or two hours of laboratory work per week for 15 weeks resulting in the award of one credit.
- Credits for internship shall be one credit per week of training. Subject to a maximum of six credits in a semester.

### 51.12 Course Structure

Each of the subject/categories (i) to (v) as specified in 51.10 shall comprise of courses. Courses are the basic units of education and/or training. Types of courses shall be as follows:

**51.12.1 Core Course:** Such courses which shall compulsorily be studied by the student as core requirements of the programme

**51.12.2 Elective Course:** Generally, a course which the student can choose from a pool of courses, which is specific or specialized at advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables an exposure of some other discipline/domain to nurture the candidate's proficiency or skill is called an Elective Course.

**51.12.2.1 Discipline Specific Elective (DSE) Course:**

Elective courses offered from the main discipline/subject of study are referred to as Discipline Specific Elective the University may also offer discipline related Elective courses of interdisciplinary nature (to be offered by main discipline/subject of study)

**51.12.2.2 Dissertation/Project**

An elective course designed to acquire special/advance knowledge, such as supplement study/support study to a project work, and student studies such a course independently with advisory support by a teacher/faculty member is called dissertation/project. It is considered a special course involving the application of knowledge in solving/analyzing/exploring a real-life situation/difficult problem for a bachelor degree with honors/research A Project/Dissertation work would be of credits, as decided by the competent body. The student will do this work under the guidance of a faculty member.

**51.12.3 Generic Elective (GE) Course**

An elective course chosen generally from an unrelated discipline/subject to seek exposure of other fields is called a Generic Elective course.

**51.12.4 Ability Enhancement Courses (AEC):**

The Ability Enhancement Courses (AEC) are of two types

- Ability Enhancement Compulsory Courses (AECC)
- Skill Enhancement Courses (SEC) or Vocational Courses

"AECC" courses are the courses based upon the content that leads to knowledge enhancement, such as,

- Environmental Education
- English/Hindi Communication is mandatory for all disciplines.

"SEC" courses are value based/skill-based to enhance skills of the Major Subject They are aimed to provide hands on training competencies, skills, etc

*The syllabus for a specific programme will be decided by the concerned Board of studies of the University/Autonomous College based on the curriculum issued by the UGC under LOCF with maximum deviation of 20%.*

**51.13 Passing Standards**

Level	Semester	Minimum Credit Requirement					
		Major subject	Minor subject	Generic Elective	Ability Enhancement	Vocational	Field/ Internship
Certificate	First	6	4	4	4	-	-
	Second	6	4	-	4	4	4

Level	Semester	Minimum Credit Requirement					
		Major subject	Minor subject	Generic Elective	Ability Enhancement	Vocational	Field/ Internship
Diploma	Third	6	4	4	4	-	-
	Fourth	6	4	-	4	4	4

Level	Semester	Minimum Credit Requirement					
		Disciplinary Elective	Minor subject	Generic Elective	*Ability Enhancement	Vocational	Field/ Internship
Degree	Fifth	6	4	4	4	-	-
	Sixth	6	4	-	4	4	4

\* Ability enhancement shall not be mandatory if student opt for Hons/Research degree and the grade points shall be replaced from ability enhancement to Project Work in fifth and sixth semesters.

Level	Semester	Minimum Credit Requirement		
		Disciplinary Electives	Research Methodology/ Dissertation	Field/ Internship
Honors/ Research	Seventh	12	6	-
	Eighth	6	4	12

**Percentage:** For passing a semester examination and for promotion to the next semester (from 1<sup>st</sup> to 8<sup>th</sup> Semester) a student shall have to obtain a minimum of 50% marks in each paper separately of Theory and Practical Examinations including dissertation / thesis / project work (wherever applicable) The division shall be declared on the basis of total marks scored in all the six semesters as follows.

- First division with honor, where student score 75 % or more marks
- First division, where student score 60% or more marks
- Second division, where student score 50% above but less than 60 % marks

**51.14 Medium of Instruction & Examination: -**

The Medium of Instruction during the Examination shall be English/ Hindi.

**51.15 Examination: -**

Examination will be conducted as per Ordinances 4 & 5 of Mandsaur University as per the Regulations made in this respect as described in the Scheme of examination promotion to

subsequent semesters and course of studies shall be as per the recommendation of the concerned Board of Studies with due approval of Academic Council. The Examination pattern shall be CBCS with continuous assessment of students. The passing criteria will be 50% including internal exam for both theory and practical separately. The Studies and examination of the course shall be basis on the marks/marks cum credit / credit system as recommended by Board of Studies from time to time.

**51.16 Attendance Requirement:**

A candidate must have at least 75% attendance in each semester, provided that, in case of illness or because of other reasonable cause, it shall be relaxed by Vice Chancellor as up to 15% admissible within applicable regulation.

**51.17 General Instructions: -**

- i. For matters not covered in this specific ordinance, general rules and regulations of Mandsaur University, regarding specific courses shall be applicable. In other matters Board of Management of Mandsaur University shall be competent to take any decision which shall be final.
- ii. Other guidelines as described in NEP 2020 shall be followed.

**ORDINANCE NO. 50****Bachelor of Science (B. Sc.)**

Ordinance for three/four-year undergraduate Degree program  
(As per the " Guidelines for Multiple Entry and Exit in Academic Programmes offered in Higher Education institutions" issued by UGC; New Delhi under National Education Policy 2020)

**1. Course & Faculty**

- a. The provisions of this Ordinance shall be applicable from the academic session 2022-23
- b. The provisions of this Ordinance shall apply to the three-year/six-semester Bachelor's degree or four-year eight-semester Bachelor's degree (Honor's/Research) undergraduate programmes Bachelor of Science (B Sc.) and B.Sc. in Forensic Science.
- c. The above courses shall be offered as per the UGC norms.

**2. Number of seats**

- a. Number of seats in each course/s shall be decided by the University and as per the norms laid down by the concerned MPPURC, Bhopal.
- b. Depending upon the academic and physical facilities available, the University /college may earmark seats to a maximum of 10% of the seat, sanctioned for the previous semester of the programme for lateral entrants in the second semester/third semester/fourth of a first-degree programme, if the student has successfully completed the first semester/second semester/third semester of the same programme in any in and wants to re-enter into the programme after a break in studies.

**3. Fees**

Fees for the course/s shall be as determined by the University and approved by the Madhya Pradesh Private University Regulatory Commission, from time to time.

**4. Eligibility Criteria for Admissions**

Following the eligibility criteria as per the guidelines of concerned regulatory /statutory body, the eligibility norms in the course shall be:

a. Every applicant for admission to B.Sc. shall have passed Higher Secondary School (10+2) Scheme, or equivalent examination approved by various universities and statutory bodies in appropriate discipline.

b. The admission to the B.Sc. course shall be governed by the rules and the criteria set by the Academic Council or empowered committee or the relevant statutory body.

#### 5. Admission Procedure

Following the norms of statutory body, admission for these courses will be made as follows:

- a. The University will issue admission notifications in newspapers/on the University's website/notice board of the University etc. before the start of the academic semester. The University may conduct its own entrance examination for admission. The students may also secure direct admission in the University, based on percentage of higher secondary examination (10+2) or equivalent, as laid down by the University.
- b. The admission Shall be made on merit calculated on the basis of criteria notified by the University/State Government, keeping View the guidelines/norms in this regard issued concerned statutory bodies and taking into account the reservation policy issued by the government from time to time
- c. List of candidates provisionally selected for admission /shortlisted by merit, will be displayed on the notice board of the University/ University's website/or the students will be informed directly of their admission.
- d. The candidates whose results of the qualifying examinations are awaited can also apply but will be admitted provisionally. Such candidates, however, must produce previous semester's mark sheet, school/college certificates as proof required for eligibility. The candidates shall have to present the mark sheet of the qualifying examination within stipulated due date after admission, otherwise the provisional admission granted to him will be liable to be cancelled.

The application form may be rejected due to any of the following reasons;

1. The candidate does not fulfill the eligibility conditions.
2. The prescribed fees are not paid.
3. The application form is not signed by the candidate and his/her parent guardian, wherever required.

4. Supporting documents for admission are not enclosed.

- e. Enrollment / Registration number will be assigned to the student by the University after verification & submission of all the necessary documents/fees.

#### 6. Course Structure

- a. The subjects to be studied in different semesters of the courses shall be as per the schemes, approved by the concerned Board of Studies, Academic Council of the University and New education policy 2020.
- b. To enable multiple entry and exit points in the academic programmes, qualifications such as certificate, diploma, and degree organized in a series of levels in an ascending order from level 5 to level 8. The four-semester undergraduate programme shall comprise courses under the following subject /categories.

- I. Disciplinary/ interdisciplinary Major (Core Course - DSE) (64 credits)
- II. Disciplinary/ interdisciplinary Minor (32 credits)
- III. Generic Elective (16 credits)
- IV. Skill Enhancement Course /Vocational Course (12 credits)
- V. Ability Enhancement Courses (08 credits)
- VI. field project/internship/apprenticeship/community engagement and service/research project (28 credits)

A group/subject shall be chosen as Major/Minor/Generic Elective

- c. Qualification and Credit Requirements are given in Table I. The entry and exit options for students, who enter the undergraduate programme, are as follows.

#### I. 1<sup>st</sup> Year (First & Second Semester – Level 5)

Entry I The entry requirement for first semester in Level 5 is successful completion of Class 12 from M P Board of Secondary Education. Bhopal, or an equivalent examination from any other board recognized by the State Government/University.

A programme of study leading to entry into the first semester of the Bachelors. degree 1s open to those who have met the admission requirements.

Exit 1: If a student passes all the courses of Level 5 and earns the requisite number of credit the student Will become entailed to an Undergraduate certificate in the



faculty of her/his Major Subject. If she/he wants to exit, can exit the programme with Undergraduate certificate in hand

## II. 2<sup>nd</sup> Year (Third & Fourth Semesters-Level 6)

Entry 2: The entry requirement for fourth-semester in Level 6 is the Successfully Completion of level 5 A programme of study leading to the second semester of the Bachelor's degree is open to those who have met the admission requirements

Exit 2: if a student passes all the courses of Level 5 & 6 and earns the requisite number of credits, the student becomes entitled to an Undergraduate Diploma in the faculty of her/his major Subject If she/he wants to exit, can exit the programme with Undergraduate Diploma in hand A diploma requires 80 credits with 40 credits in each of the two levels

## III. 3<sup>rd</sup> Year (Fifth & Sixth Semester-Level 7)

Entry 3 The entry requirement for semester six in level 7 is Successfully completion of Level 5 & 6. A programme of study leading to the Bachelor's degree is open to, those who have met the admission requirements

Exit 3: If the student passes all the courses of Level 5 to 7 first to six semesters and earns the requisite number of credits, the student becomes entitled to the Undergraduate Degree in the faculty of her/his major Subject, A Bachelor's degree requires 120 credits from level 5 to 7, with 40 credits at level 5, 40 credits at level 6, and 40 credits at level 7

## IV. 4<sup>th</sup> Year (seventh & Eighth Semester-Level 8)

Entry 4, An individual seeking admission to a bachelor's degree (Honor's/Research) (Level 8) in a specified field of learning would have completed all requirements of the relevant three-semester bachelor degree (level 7) After completing the requirements of a three-semester bachelor degree, candidates who meet a minimum CGPA of 75 shall be allowed to continue studies in the fourth semester of the undergraduate programme to pursue and complete the Bachelor's (Honor's/ Research) degree

Exit 4: If the student passes all the courses of level 5 to 8 and earns the requisite credits, the student becomes entitled to an Undergraduate Degree in (Honor's/ Research) in the faculty of he/his Major Subject. A Bachelor's degree (Honor's/

Research) requires a total of 160 credits from level 5 to 8, with 40 credits at level 5, 40 credits at level 6, 40 credits level 7, and 40 credits at level 8.

Table-1: Qualification Type and Credit Requirements

Levels	Qualification title	Credit Requirements
Level 5	Undergraduate Certificate in the faculty of the Major Subject for those who exit after the first semester (two semesters) of the undergraduate programme (Programme duration first semester or two Semesters of the Undergraduate Programme )	40
Level 6	Undergraduate Diploma in the faculty of the Major subject for those who exit after two semesters (four semesters) of the Undergraduate Programme (Programme duration first two semesters four Semesters of the Undergraduate Programme)	80
Level 7	Bachelor Degree in the faculty of Major Subject (Programme duration Three semester or six Semesters)	120
Level 8	Bachelor Degree in the faculty of Major Subject (Honor's/ Research) (Programme duration four semester or Eight Semesters)	160

d. The credits will be awarded by the university The credit can be calculated as follows

- I. One hour of theory or one hour or tutorial or two hours or laboratory work per week for 15 week resulting in the award of one credit.
- II. Credits for internship shall be one credit per week of training subject to a maximum of six credits in a semester.

e. The minimum duration of the undergraduate degree programme shall be of three academic Semesters/six Semesters, whereas that of undergraduate degree leading to Honor's/Research shall be of four academic semesters/eight semesters.

- A student who leaves the course anytime in the middle of the Programme will retain the credits earned so far, which will be restored/transferred when she/he enters the programme again.

f. The maximum duration for completing the Undergraduate degree and Undergraduate degree. (Honor's/ Research) programme for regular students shall be 6 and 8 semesters,

respectively; there shall be no such bar for non. colleague (private) students. However, one mercy attempt can be granted to a student by Vice-Chancellor which should not be more than one semester on satisfactory reason.

## 7. Type of Course

a. Core Course: Such courses which shall compulsorily be studied by the student as a core Requirement of the programme.

b. Elective Course:

Generally, a course which the student can choose from a pool of courses, which is specific on specialized or advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables an exposure of some other discipline/subject/domain to nurture the candidate's proficiency or skill is called an Elective Course.

i. Discipline Specific Elective (DSE) Course:

Elective courses offered from the main discipline/subject of study are referred to as Discipline Specific Elective the University may also offer Discipline related Elective courses of interdisciplinary nature (to be offered by main Discipline /subject of study)

ii. Dissertation/Project

An elective course designed to acquire special/advanced knowledge. such as supplement study/support study to a project work, and a student studies such a course independently with advisory support by a teacher/faculty member is called dissertation/project. It is considered a special course involving the application of knowledge in solving/analyzing/exploring a real-life situation/difficult problem for a bachelor degree with Honor's/research. A project/Dissertation work would be of cradles, as decided by the competent body. The Student will do this work under the guidance of a faculty member.

iii. Generic Elective (GE) Course.

An elective course chosen generally from an unrelated discipline/subject to seek exposure of other fields is called a Generic Elective course.

c. Ability Enhancement Courses (AEC):

- The Ability Enhancement Courses (AEC) are of two types

- Ability Enhancement Courses (AECC)
  - Skill Enhancement Courses (SEC) or Vocational Courses "AECC"  
Courses are the courses based upon the content that leads to Knowledge enhancement, such as, Environmental Education
  - English/Hindi, Communication is mandatory for all disciplines
  - SEC courses are value-based/skill-based and may also be designed to enhance skill of the Major Subject they are aimed to provide hands-on training competencies skills etc.
- d. The syllabus for a specific programme will be decided by the concerned Board of Studies of the University based on the curriculum issued by the UGC under LOCF with maximum deviation of 20%.

#### 8. Medium of Instructions and Examination

The medium of instructions for teaching and examination shall be in English/Hindi throughout the course of study.

#### 9. Examination Scheme

- I. No candidate shall be allowed to take the term-end Semester Examination unless one has:
- a. Attended at least 75% of lectures/practical delivered.
  - b. Paid all the fees dues.
  - c. Obtained 'No Dues' certificate from the concerned department/faculty/office.
  - d. Submitted the training/ internship certificate, and /or Project Report, as notified by the Head/Director/Dean.
  - e. Received in-plant training, if any, as prescribed in the scheme.
  - f. Each student shall have to appear in the examination of theory/practical and continuous comprehensive examination system (CCE)/internal assessments. The internal assessments shall be held in the manner as prescribed in the scheme, adopted time to time.

## II. Structure for Undergraduate Programme: Semester System

### a. First Semester:

A student shall be declared to have successfully completed the first semester if he/she acquires 6 credits in Core Course of the major subject, 6 credits in Core Course of the minor subject, 4 credits in Generic Elective and 4 credits in Ability Enhancement Course (AEC)

### b. Second Semester (Level 5):

A student shall be declared to have successfully completed the second semester if he/she acquires 6 credits in Core Course of the major subject, 6 credits in Core Course of the minor subject, 4 credits in Generic Elective and 4 credits in Ability Enhancement Course (AEC)

The student can choose his/her major, minor subject and the generic elective subject if he/she fulfils the pre-requisites prescribed by the concerned Board of Studies A student passing Grade 12 with science can take admission in Level 5 with major and minor subject from science/arts/commerce faculty, a student passing Grade 12 with commerce faculty can take major and minor subject from commerce/arts faculty. Where's a student passing Grade 12 with arts faculty can choose major and minor subject from arts faculty only Major and Minor subject. shall belong to the same faculty (which will be called as the Main faculty). Whereas generic elective subject can be chosen from any faculty However, allotment of choices will be subject to the provisions of admission guidelines.

### c. Third Semester:

A student shall be declared to have successfully completed the third semester if he/she acquires 6 credits in Core Courses of the major Subject, 6 credits in Core Courses of the minor Subject. 4 credits in Generic Elective and 4 credits in skill Enhancement Course (SEC)/Vocational Course

### d. Fourth Semester (Level 6):

A student shall be declared to have successfully completed the fourth semester, if he/she acquires 6 credits in Core Course of the major subject, 6 credits in Core Courses of the minor Subject, 4 credits in Generic Elective and 4 credits in skill Enhancement Course (SEC)/Vocational Course.

The Student shall be given a single chance at the entry of level 6 to interchange the major

and minor subject. However, in such cases, it will be the students' responsibility to earn additional credits to fulfil the minimum requirement of credits prescribed for the major course. Only after fulfilment of such credits he/she will be entitled to earn an undergraduate Diploma or an Undergraduate Degree.

e. Fifth Semester:

A student shall be declared to have successfully completed the fifth semester, if he/she acquires 6 credits in Core Course of the major subject, 4 credits in skill Enhancement Course (SEC)/Vocational Course, 4 credits in discipline-specific elective (DSE) of the major subject and 6 credits in Field project/internship/apprenticeship/community engagement and services, preferably related to major and/or minor subjects.

f. Sixth Semester (Level 7):

A student shall be declared to have successfully completed the sixth semester, if he/she acquires 6 credits in Core Course of the major subject, 8 credits in discipline-specific elective (DSE) of the major subject and 6 credits in Field project/internship/apprenticeship/community engagement and services, preferably related to major and/or minor subjects.

g. Seventh Semester:

Bachelor with Honor's/Research

A student shall be declared to have successfully completed the seventh semester with Honor's, if he/she acquires 6 credits in core courses of the major subject, 4 credits in Research Methodology, 4 credits in discipline-specific elective (DSE) of the major subject and 6 credits in Field project/internship/apprenticeship/community engagement and services,

A student shall be declared to have successfully completed the seventh semester with research, if he/she acquires 6 credits in core courses of the major subject, 4 credits in Research Methodology, 4 credits in discipline-specific elective (DSE) of the major subject and 6 credits in research project.

h. Eighth Semester (Level 8)

Bachelor with Honor's/Research

A student shall be declared to have successfully completed the eighth semester with Honor's, if he/she acquires 6 credits in core courses of the major subject, 4 credits in

Level	Semester	Main Faculty (as per prerequisite)			Any Faculty	Skill Enhancement Course (SEC)	Ability Enhancement Course (AEC)	Field projects/ internship/ apprenticeship/ community engagement and service	Credits	Qualification in (Credit requirement)
		Subject I		Subject II						
		Core	Major	Minor	Subject III					
Level 5	1	1 (6 Credits)		1 (6 Credits)	1 (4 Credits)	Vocational Course	1 (3 Credits)	1 # Inter/intra faculty	6+4+4+4 =20	(40) Undergraduate Certificate in Main Faculty
	2	1 (6 Credits)		1 (6 Credits)	1 (4 Credits)		1 (4 Credits)		6+4+4+4 =20	
	3	1 (6 Credits)		1 (6 Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4 =20	(60) Undergraduate Diploma in Main Faculty
	4	1 (6 Credits)		1 (6 Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4 =20	
Level 7	5	1 (6 Credits)	1 (4 credits)			1 (4 Credits)		1 Field project/internship/ apprenticeship (6 Credits)	6+4+4+6 =20	(120) Bachelor Degree in Main Faculty
	6	1 (6 Credits)	2 (4 credits) + (4 credits)					1 Field project/internship/ apprenticeship (6 Credits)	6+4+4+6 =20	
Level 8	7	1 (6 Credits)	1 (4 credits)	1 Research Methodology (4 Credits)				1 Field project/internship/ Apprenticeship or Research Project (6 Credits)	6+4+4+6 =20	(160) Bachelor Degree (Honours) in Main faculty
	8	1 (6 Credits)		1 (4 Credits)				1 Field project/internship/ Apprenticeship or Research Project (10 Credits)	6+4+10 =20	Bachelor Degree (Research) in Main faculty
Total		48 credits	16 credits	32 credits	16 credits	12 Credits	08 Credits	28 Credits	160 Credits	

dissertation and 10 credits in Field project/internship/apprenticeship related to the major subject.

A student shall be declared to have successfully completed the seventh semester with research, if he/she acquires 6 credits in core courses of the major subject. 4 credits in minor and 10 credits in Research project.

The nomenclature of degree shall strictly conform to the relevant provisions or the act/regulations/guidelines of the UGC.

i. Additional Courses:

In the categories of minor subject, generic elective and skill enhancement courses/vocational courses, a student may earn up to 6 credit per year in the entire tenure of the 3-year undergraduate degree program after paying due fee for registration and examination.

j. A student may change the generic elective subject in each year of the 3-year undergraduate programme.

10. Choice to Select the MOOC Courses:

- a The UTD can allow up to 40% of the total credits long offered in a particular programme in a semester through the online learning courses provided under SWAYAM platform or, any other MOOC platform recognized by the central government or the state government for credit transfer.
- b The students will have the choice to opt for elective-generic skill Enhancement /Ability Enhancement courses from the available within the UID or other UTDs of the same universities but from same level of the programmes. An alternate choice will also be available to the student to opt courses from massive open online Courses (MOOCs) available at SWAYAM (Study webs of Active – Learning for Young Aspiring Minds) platform with the permission of the College/UTD
- c The UTDs shall offer elective-generic courses in each Programme on credit basis across the disciplines The number of seats in the courses will depend on available facilities in the College/UTD
- d The students can also opt a course under DSE of Major subject from Massive open online Courses (MOOCs) available at SWAYAM platform



e The University will take a decision for allowing the online courses of SWAYAM if

I. The courses offered on SWAYAM would supplement the teaching-learning process in the institution.

II. Every student opting a course available on SWAYAM platform would be required to register for the courses at SWAYAM. The student will pay the stipulated fee to SWAYAM for registering the course if required.

III. While allowing the online learning courses offered by SWAYAM, it shall be ensured that the physical facilities like laboratory, computer teaching and library etc. essential for pursuing the course, shall be made available free in adequate measure by the UTD. The parent institution must designate a course coordinator/facilitator to guide the students throughout the course and to facilitate/conduct the lab/Practical sessions/examinations.

f The requirement of project/dissertation, as notified by the respective UTD, need to be undertaken by the candidate for the specified credits. The project may be undertaken in any of the National and State Laboratories/Institutes/Companies/Industries with the approval of University.

**11. Requirement of attendance** will be as per University Ordinance governing the examination in general. Attendance of at least seventy-five percent of theory lectures and practical separately will be required in each course to sit in the semester end examination.

For special reasons such as prolonged illness, deficiency in percentage of attendance not exceeding fifteen percent of the total number of lectures delivered and practical/sessional held in each course may be condoned by the Vice Chancellor.

## **12. Examination & Evaluation:**

a. Generally, each course will correspond to an examination paper comprising of external and internal valuations. The semester and theory examinations for Major subject, Minor subject and Generic Elective will be of 3 hours while Vocational (SEC) and Foundation Course (AECC) will be of 2 hours' duration. The Credit Structure for theory/practical/tutorial, internal, external examination and total marks for an examination are shown in the Table 3 in clause

- b. The question paper of the external examination should preferable contain long answer short answer and objective type questions. The continuous evaluation of the student will be conducted at three points of time in a semester by conduction three test of 20 marks each of these, two must be written tests and third may be written test quiz/seminar/assignment. For theoretical courses marks in best two tests out of three will be awarded to the student. Each student shall have to appear in at least two test and end semester examination failing which the student will be awarded Ab grade in the courses in case of Laboratories/field/project work based courses appropriate distribution of marks for particle record/project report practical semester and exam Viva, if any be decided by the University/autonomous college in case of internal assignment the college/UTD/University sale distribute and design there assignment so that at least two test conducted in an academic semester.
- c. UTD may design their own mode of internal assessment with due approval from respective academic council in view of the "Evaluation Reforms in Higher Educational Institutions, 2019" published by the UGC.
- d. Total marks obtained in Semester-End Examination and continuous evaluation will be considered for awarding the grade in the course as explained in e.
- e. The grading will be made on 10-point scale as described below.

Letter Grade	Grade Points	Description	Range of Marks (%)
O	10	Outstanding	90-100
A+	9	Excellent	80-89
A	8	Very Good	70-79
B+	7	Good	60-69
B	6	Above Average	50-59
C	5	Average	40-49
P	4	Pass	35-39
F	0	Fail	0-34
Ab	0	Absent	Absent

- f. In case statutory bodies of the programme issue the guidelines regarding minimum passing percentage of marks, then grading will be done in the following manner,

If the marks obtained by the student in a course are less than the minimum cut off percentage of marks then F grade will be awarded, otherwise the grade will be awarded as per above mentioned table.

- g. If a student obtains F or Ab grade in any course, he/she will be treated to have supplementary/failed in the course. He/she has to reappear in the examination of that course as and when conducted by the University. Marks obtained earlier in continuous assessment may be carried forward and added to the marks obtained in repeat semester-end examination to decide the grade in the repeat course.
- h. The student will be promoted to the next semester if he/she secures at least half of the total credits in a semester, in case the student secures less than half of the total credits in semester, then the student will be declared fail in that semester and he/she will be asked to repeat the entire semester and that semester will be treated as zero semester in such cases the student will not be promoted to the next semester.

If a student passes in all the courses offered in any semester, then the student will be declared pass in that semester. If a student secures at least half of the total credits in a semester and fails in some courses offered in that semester, then he/she will be provisionally promoted to the next semester with supplementary in those courses in which he/she fails.

If the student fails to pass all these courses in the next supplementary examination the provisional promotion will be terminated but he/she will be given second chance to pass the failed courses. If the student does not successfully complete the concerned semester even after the aforesaid second chance, she/he shall be treated as fail in that semester and will be asked to repeat entire semester and that semester will be turned as zero semester.

- i. Repetition of theory and practical courses is allowed only to those candidates who get F or Ab grade in the course or has failed in the semester the student has to pay the prescribed fee for repeating the course.
- j. On account of valid reason, a student may withdraw from a semester in such case that semester will be treated as zero semester.
- k. In case of zero semester, the student will not be promoted to the next semester till he/she

Course (Credit)	Course Type	Credits Allocated			Distribution of Theory Marks		Distribution of Practical Marks		Tutorial Marks
		Theory	Practical	Tutorial	Internal (Through CLE)	External (End Semester Exam)	Internal	External (End Semester Practical Exam)	
1 Core (6)	Type-1	6	NA	NA	40	60	NA	NA	NA
2 Core (6)	Type-2	4	2	NA	40	60	40	60	NA
3 Core (6)	Type-3	2	4	NA	40	60	50 (Through CCE)	50	NA
4 Core (6)	Type-4	5	NA	1	40	60	NA	NA	100
5 GE/DSE/SEC (4)	Type-1	4	0	NA	40	60	NA	NA	NA
6 GE/DSE/SEC (4)	Type-2	3	1 (P.T.H, etc)	NA	40	60	NA	100	NA
7 DSE/SEC (4)	Type-3	1	3 (P.T.H, etc)	NA	40	60	50 (Through CCE)	50	NA
8 DSE/SEC (4)	Type-4	3	NA	1	40	60	NA	NA	100
9 ABCC (4)	Type-1	4	NA	NA	40	60	NA	NA	NA
10 Field-Projects / Internship / Apprenticeship / Community engagement & service (6/10)	NA	(i) Field-Projects / Internship / Apprenticeship / Community engagement & service 4/6 Credits (75 Marks) (ii) Evaluation of Report 2/4 Credit (25 Marks)							
11 Research Methodology (4)	Type-4	3	NA	1	40	60	NA	NA	100
12 Dissertation/Research Project (4/6/10)	NA	Evaluation of Thesis 2/4/6 Credits (50 Marks) + Pte submission viva-voce 1/1/2 Credit (25 Marks) 1/1/2 Credits (25 Marks) + External viva-voce 1/1/2 Credit (25 Marks)							

P-Practical, T-Topping, H-Workshop

P-Practical, T-Theory, W-Workshop

clears that semester. The university may allow such student to re-register in that semester in the coming semester. The student has to pay semester fee again in such case and may not be eligible for scholarship if the student withdraws within one month from starting of the academic semester the semester fee will not be change again.

- l. the provisional for revolution of answer book in semester system will be available existing as per the rules of the University
- m. The theoretical and practical courses can be repeated whenever offered or conduct by the University/UTD but within maximum duration of the program he/she can avail multiple repeat attend to pass the course.

### 13. Evaluation and Certification of MOOCs and Vocational courses:

The guidelines of the state government/University/SWAYAM portal/UGC shall be followed for evaluation and certificate of MOOCs, Vocational courses, projects/internship/Apprenticeship/Community engagement & service/Research project.

### 14. Calculation of SGPA/CGPA:

- a. Semester Grade Point Average (SGPA) is a measure of performance of the student in a semester It is ratio of total credit point secured by a student in various courses registered in that semester and the total course credit taken duration date semester

$$i. \text{ i.e. } SGPA (S_i) = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

where  $S_i$  is the  $i$ th year,  $C_i$  is the number of credits of the  $i$ th course and  $G_i$  is the grade point scored by the student in the  $i$ th course.

- b. The Semester Grad Point Average (SGPA) and Cumulative Grade Point Average (CGPA) will be calculate as weighted average of credit point secured by the student except the credits of additional courses if any. The SGPA and CGPA shall be rounded off up to 2 decimal place and reported in the great sheet

#### Calculation of SGPA:

Course	Credits(C)	Grade	Grade Point(GP)	Credit Points (C x GP)	SGPA(Total Credit Point /Total Credit)
Course I	6	A	8	48	146/20=7.30

Course 2	6	C	5	30	
Course 3	4	B+	7	28	
Course 4	64	O	10	40	
Total	20		-	146	

- c. CGPA is a measure of overall Cumulative performance of a student over all the semester completed. The CGPA is the ratio of total credit point secured by a student in a various course in all the semester completed and the sum of the credit of all the courses in all the semesters completed. The CGPA will be calculated as per follows

$$CGPA = \Sigma(Ci \times SGPA (Si)) / \Sigma Ci$$

where Si is the SGPA of the ith semester and Ci is the total number of credits in ith semester

#### Calculation of CGPA:

Semester	Credits	SGPA	Credits x AGPA	CGPA
1	20	7.50	150.00	CGPA= Total (Credit × SGPA total credits) CGPA =1229.60/160 =7.685 =7.69(rounded off to second decimal)
2	20	7.58	151.60	
3	20	7.32	146.60	
4	20	8.34	166.80	
5	20	7.58	151.60	
6	20	7.32	146.40	
7	20	8.34	166.80	
8	20	7.50	150.00	
Total	160		1229.60	

15. On completing all requirements for award of the undergraduate certificate/diploma/degree the CGPA will be calculated and this value will be indicated on the certificate/diploma/degree. The 3-Years (6 Semester) and 4-Years (8 semester) undergraduate degree should also indicate

the division obedient as per follows,

Division	Criterion
First Division with distinction	The candidate has earned minimum number of credits required for the award of the degree with CGPA of 8.00 or above
First division	The candidate has earned minimum number of credits required for the award of the degree with CGPA of 6.50 above but less than 8.0
Second division	The candidate has earned minimum number of credits required for the award of the degree with CGPA of 5.00 or above but less than 6.50
Pass	The candidate has earned minimum number of credits required for the award of the degree with CGPA of 4.00 above but less than 5.00

The conversation of CGPA into percentage will be as follow to facilitate application in other academic matters

$$\text{Equivalent percentage} = \text{CGPA} \times 10$$

the percentage will be around it of up to second decimal point.

16. The student will be examined by the universities for the syllabus and scheme of examination.
17. The candidate shall be awarded a certificate/diploma/degree when he/she successfully earn the minimum required credit for the certificate/diploma/degree
18. A grade card shall be issued to all the student after every academy semester based on the grades earned. The course detail (code, title, number of credits, grade secured) along with SGPA of every student semester and CGPA earned till that academic year will be displayed in the grade card
19. Credit Transfer:
  - a. The credit transfer shall be implemented as per the policy of the university framed in accordance with the guidelines issue by the UGC from time to time
  - b. The member Institution of the academic Bank of credit established vide University Grand commission (Establishment and operation of Academic Bank of Credit in Higher

Education) Regulation, 2021 shall accept and transfer the credit as per the provisional of the regulation is amended from time to time

- c. Except for the cases of provisional promotion, the university established by MP University Act, 1973 shall facilitate credit transfer of student between them However the student may be required to full fill some eligibility criteria, drawing parity for a course framed by the university in which the student seeks the admission.

20. If any question arises related to the interpretation of the provisions of the ordinance, it shall be referred to the state government whose decision thereon shall be applicable.

21. The guidelines related to the programme issued by the statutory bodies example UGC/AICT/BCI/NCTE/PCI/RCI issued from time to time will be adopted for implementation

22. In matter not covered under this Ordinance, general rules of the university shall be applicable, otherwise the direction of the state government shall be applicable.

23. If UGC notifies any change in future in its regulations in this regard, the same will be incorporated in the existing ordinance with the approval by Kuladhipati on the recommendation of the higher education Department.

#### 24. General

Notwithstanding anything stated in this Ordinance, for any unforeseen issue arising, and not covered by this Ordinance, or in the event of differences; interpretation, the Vice-Chancellor may take a decision after obtaining necessary opinion/advice of a Committee consisting of any or all the HOIs/Dean. The decision of the Vice-Chancellor shall be final.

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**भाग ४ (ग)**  
**अंतिम नियम**  
**संस्कृति विभाग**

मंत्रालय, वल्लभ भवन, भोपाल

भोपाल, दिनांक 23 फरवरी 2024

क्रमांक एफ 2/4/2/5001/2024/तीस :: राज्य शासन, एतद् द्वारा 'मध्यप्रदेश अशासकीय संस्था अनुदान नियम, 2021' को अतिष्ठित करते हुये, प्रदेश में कला संस्कृति के संरक्षण एवं संवर्धन हेतु अशासकीय प्रयासों को वित्तीय सहायता प्रदान करने के लिए आर्थिक सहायता अनुदान योजना के विनियमन हेतु निम्नलिखित नियम बनाती है, अर्थात :-

**भाग - 1**  
**प्रारंभिक**

**1. संक्षिप्त नाम तथा विस्तार और प्रारंभ -**

(1) इन नियमों का संक्षिप्त नाम "मध्यप्रदेश अशासकीय संस्था अनुदान नियम, 2024" है।

(2) यह नियम, मध्यप्रदेश राजपत्र में इनके प्रकाशन की तारीख से प्रवृत्त होंगे।

**2. परिभाषाएं : जब तक संदर्भ से अन्यथा अपेक्षित न हो -**

(क) "अनुदान समिति" से अभिप्रेत है, नियम 15 के अधीन गठित समिति;

(ख) "अशासकीय संस्था" से अभिप्रेत है, सांस्कृतिक गतिविधियों के लिए गठित एवं पंजीकृत संस्थाएं और जिनमें निम्नलिखित सम्मिलित हैं ;

(एक) मध्य प्रदेश सोसायटी रजिस्ट्रीकरण अधिनियम, 1973 के अधीन पंजीकृत अशासकीय संस्था।

(दो) ऐसी अशासकीय संस्था, जो मध्यप्रदेश में संचालित है और तीन या अधिक वर्षों से कला एवं संस्कृति के क्षेत्र में सक्रिय है।

(तीन) ऐसी अशासकीय संस्था, जो विभिन्न कला विधा एवं साहित्य के क्षेत्र में स्तरीय प्रशिक्षण, सेमीनार और नियमित प्रदर्शन आयोजित करती है।

(चार) ऐसी अशासकीय संस्था, जो समय-समय पर विशिष्ट स्तर के सांस्कृतिक समारोह तथा साहित्यिक गतिविधियां आदि आयोजित करती हो और किसी समारोह या आयोजन विशेष के लिए सहायता चाहती है।

(ग) "स्वीकृति प्राधिकारी" से अभिप्रेत है, आयुक्त/संचालक संस्कृति संचालनालय, जो इन नियमों के अधीन योजना के क्रियान्वयन के संबंध में पूर्ण कार्यवाही करने के लिए उत्तरदायी होगा।

(घ) "राज्य शासन" से अभिप्रेत है, मध्य प्रदेश, संस्कृति विभाग।

- (ड.) 'संवितरण प्राधिकारी' से अभिप्रेत है, मध्यप्रदेश संस्कृति परिषद। योजनान्तर्गत विभिन्न अशासकीय संस्थाओं को स्वीकृत अनुदान राशि का वितरण, संवितरण प्राधिकारी के माध्यम से किया जावेगा।

**भाग -2**  
**सामान्य उपबंध**

**3. सहायता अनुदान -**

- (1) अनुदान तीन प्रकार का होगा अर्थात् :-

- (क) संधारण अनुदान;
- (ख) उपकरण अनुदान
- (ग) शिविर एवं आयोजन अनुदान

**4. पात्रता एवं मापदण्ड :-**

- (1) अनुदान केवल ऐसे अशासकीय संगठनों/संस्थाओं को दिया जाएगा जैसा कि नियम 2 के उपनियम (3) में विनिर्दिष्ट है और प्रशिक्षण, अन्वेषण या/और यथापूर्ण व धर्म निरपेक्ष रूपक, प्रदर्शन एवं कलाओं में प्रदर्शन आयोजित करने जैसे कार्य करती हैं तथा अपने गठन से कम से कम तीन वर्ष से लगातार अस्तित्व में हैं और कला, संस्कृति एवं साहित्य के प्रसार एवं संवर्धन हेतु सतत सक्रिय हैं।

परंतु यह और कि इन नियमों के अधीन अनुदान की स्वीकृत, निधियों की आवश्यकता एवं उपलब्धता के साथ-साथ राज्य शासन द्वारा समय-समय पर दिए गए निर्देशों के अधीन होगी।

- (2) इस अनुदान का उपयोग केवल संगठन की इच्छा से किसी भी व्यक्ति/कलाकार/सामाजिक कार्यकर्ता को सम्मानित करने, स्मृति चिन्ह, शॉल और श्रीफल भेंट करने जैसी गतिविधियों/कार्यों के लिए नहीं किया जाएगा।
- (3) किसी भी जाति या सांप्रदायिक शिक्षा या धार्मिक कार्यक्रम/आयोजन पर व्यय के लिए कोई अनुदान नहीं दिया जाएगा।
- (4) किसी भी संगठन/संस्था द्वारा सहायता अनुदान का दावा अधिकार के रूप में नहीं किया जा सकता है।
- (5) एक बार अनुदान प्राप्त हो जाने पर, आगे अनुदान प्राप्त करने का कोई आधार नहीं होगा और प्राप्तकर्ता के पक्ष में सहायता अनुदान का कोई स्थायी दावा नहीं होगा। ऐसे मामले के लिए किया गया पत्राचार अमान्य होगा और यह माना जाएगा की संस्था ने इसकी जानकारी होने के बावजूद नियमों का उल्लंघन किया है।

- (6) सहायता प्राप्त संस्थाओं से यह अपेक्षा की जाएगी कि वे अपने कार्यक्रमों और गतिविधियों में संबंधित जन प्रतिनिधियों और जिला प्रशासन के अधिकारियों को आमंत्रित करेंगे।
- (7) संस्था के पंजीकृत विधान/नियमावली में उल्लेखित उद्देश्यों में सांस्कृतिक/साहित्यिक गतिविधियों का संचालन एवं कलाओं का संवर्द्धन तथा विकास आदि वर्णित होना चाहिये।
- (8) आवेदक संस्था आवेदन प्रस्तुत करने के वर्ष से कम से कम पूर्व के तीन वर्षों से निरंतर सक्रिय एवं क्रियाशील होना चाहिये।
- (09) संस्था का मध्यप्रदेश सोसायटी रजिस्ट्रीकरण अधिनियम का पंजीयन प्रमाण-पत्र, आवेदन प्रस्तुत करते समय वैध होना चाहिये।
- (10) ऐसी संस्थाएं, जो सांस्कृतिक/ साहित्यिक, रूपंकर और प्रदर्शनकारी कलाओं की शिक्षा तथा प्रशिक्षण प्रदान करती हैं अथवा इन विधाओं में प्रदर्शन आयोजित करती हैं, इस योजना के अन्तर्गत अनुदान के लिये पात्रता के विचारण क्षेत्र में सम्मिलित की जा सकेंगी।
- (11) यदि आवेदक संस्था को विगत तीन वित्तीय वर्षों में संचालनालय द्वारा अनुदान स्वीकृत किया गया हो, तो संस्था द्वारा उस राशि के उद्देशार्थ व्यय के संबंध में चार्टर्ड अकाउंटेंट द्वारा प्रमाणित उपयोगिता प्रमाण-पत्र संलग्न किया जाना अनिवार्य होगा।
- (12) आवेदक संस्था की कार्यकारिणी/प्राधिकारियों में यदि शासकीय अधिकारी/कर्मचारी सम्मिलित हैं, तो ऐसी संस्थाएं अनुदान की पात्र नहीं मानी जाएंगी।

#### 5. पंजीकृत सोसायटी/ट्रस्ट –

किसी भी सहायता प्राप्त संस्था को चलाने वाली सोसायटी या कोई ट्रस्ट, जब तक कि राज्य शासन के विशेष या सामान्य आदेश द्वारा छूट प्राप्त न हो, मध्यप्रदेश सोसायटी पंजीकरण अधिनियम, 1973 (1973 की संख्या 44) या तत्समय प्रवृत्त सुसंगत संबंधित विधान के अधीन अनिवार्य रूप से पंजीकृत होना चाहिए।

#### 6. निरीक्षण और लेखा परीक्षा –

- (1) प्रत्येक शासकीय अनुदान प्राप्त संस्थाओं का निरीक्षण संस्कृति विभाग के निरीक्षण दल द्वारा प्रत्येक वित्तीय वर्ष में कम से कम एक बार अनुदान सहायता प्रदान करने के और यह सुनिश्चित करने के उद्देश्य से किया जा सकेगा कि क्या पहले प्रदान की गई अनुदान सहायता राशि का उचित उपयोग किया गया है।

- (2) संस्था के लेखे निरीक्षण/परीक्षण हेतु संस्कृति विभाग द्वारा प्राधिकृत किसी भी एजेंसी एवं महालेखाकार, मध्य प्रदेश को स्वविवेक से उपलब्ध रहेंगे।
7. सहायता प्राप्त संगठन/संस्था का संचालन करने वाली पंजीकृत सोसायटी के प्रबंधन द्वारा अधिकृत/नाम निर्दिष्ट प्राधिकारी द्वारा पत्राचार मान्य होगा।
8. **कर्मचारियों का आचरण –**
- (1) सहायता प्राप्त संस्था से जुड़े प्राधिकारी और कर्मचारी ईमानदार और सदाचारी होने चाहिए।
- (2) प्रत्येक सहायता प्राप्त संस्था के प्रबंधकीय अधिकारी सहित अपने कर्मचारियों की सेवा की शर्तों में यह शर्त रखेंगे कि वे किसी भी राजनीतिक दल या किसी ऐसे संगठन के सदस्य नहीं होंगे जो राजनीति में भाग लेता है और न ही अन्यथा संबंधित होगा। किसी भी विधानमंडल या स्थानीय प्राधिकरण के चुनाव में न तो किसी अन्य तरीके से सहायता करेगा, न ही प्रचार करेगा या अन्यथा हस्तक्षेप करेगा, न ही वह इस संबंध में अपने प्रभाव का प्रयोग करेगा और न ही चुनाव लड़ेगा, न ही चुनाव में भाग लेगा।
- परंतु ऐसे निर्वाचन में वे अपने मताधिकार का प्रयोग कर सकेंगे किन्तु ऐसा करते समय में किसी को मत देने का इशारा किसी भी रीति में नहीं करेंगे;
- परंतु यह और कि मात्र इस कारण से इन नियमों के उपबंधों का उल्लंघन नहीं समझा जाएगा कि उसने तत्समय प्रवृत्त किसी विधि द्वारा या विधि के अधीन उन पर अधिरोपित कर्तव्य के अनुपालन में किसी निर्वाचन के संचालन में सहायता की है।
- (3) कोई ऐसी गतिविधि या प्रतिरोधकता संज्ञान में लायी जाती है, जो उक्त नियमों के कार्यक्षेत्र में आती है तो इसे राज्य शासन को निर्दिष्ट किया जाएगा तथा उसका निर्णय अंतिम होगा।
9. जब कभी कोई सहायता प्राप्त संस्था इन नियमों में विनिर्दिष्ट शर्तों और मानकों के संबंध में उसके प्रदर्शन पर स्वीकृतकर्ता अधिकारी का समाधान करने में असफल रहता है तो वह उक्त संस्था के प्राधिकारी को औपचारिक चेतावनी दे सकेगा और निर्दिष्ट समय के भीतर त्रुटि को सुधारने का आदेश दे सकेगा। यदि संस्था विनिर्दिष्ट समय के भीतर संतोषजनक कार्रवाई करने में असफल रहती है तो स्वीकृतकर्ता प्राधिकारी ऐसे अनुदान की कटौती या प्रतिवाद का आदेश कर सकेगा।
10. **आवेदन करने की प्रक्रिया –**
- (1) अनुदान प्राप्त करने का इच्छुक संगठन/संस्था का प्राधिकारी उचित रूप द्वारा विनिर्दिष्ट उपबंध/आवेदन प्रपत्र के साथ संलग्न “चेक लिस्ट” में उल्लेखित सभी निर्धारित “संलग्नकों” को विहित प्रारूप में यथापूर्ण/यथा प्रमाणित दस्तावेज प्रस्तुत करेगा।
- (2) विहित रीति में पूर्ण रूप से भरा गया आवेदन प्रपत्र संचालक, संस्कृति संचालनालय, भोपाल के कार्यालय में प्रस्तुत किया जाएगा।

- (3) निश्चित तिथि के पश्चात प्राप्त आवेदनों पर विचार नहीं किया जाएगा। संबंधित आवेदक संस्था यह सुनिश्चित करेंगे कि उसके द्वारा भेजा गया आवेदन विहित समय सीमा के भीतर पहुंच जाए।
- (4) यह आवश्यक होगा कि समस्त अभिलेख और जानकारी स्व - अभिप्रमाणित रूप में संलग्न की जाए। यदि सम्यक रूप से भरी गई जानकारी/दस्तावेज आदि के साथ पूर्ण रूप से भरी गयी "जांच सूची" (चेक लिस्ट), आवेदन पत्र के साथ प्राप्त नहीं होती है तो आवेदन पत्र को निरस्त माना जाएगा।
- (5) आवेदक, उसके द्वारा प्रस्तुत किए आवेदन और उपलब्ध कराए गए अभिलेखों की सत्यता के लिए उत्तरदायी होगा
- (6) प्राधिकारी, प्रकरण के पुनर्विलोकन के दौरान आवश्यकता होने पर किसी अतिरिक्त जानकारी को मंगा सकेगा एवं उसकी विशिष्ट अनुशंसाओं साथ संबंधित अनुदान समिति के समक्ष रखेगा।
- (7) अंतिम तिथि तक जमा किये गये अनुदान आवेदन में कोई नया दस्तावेज या अभिलेख जोड़ने/सुधार/संशोधन करने की अनुमति नहीं होगी।
- (8) आवेदन-पत्र का प्रारूप एवं वांछित जानकारीयों का विवरण कार्यालय, संस्कृति संचालनालय अथवा वेबसाइट से डाउनलोड किया जा सकता है।

#### 11. आवेदन पत्रों का निपटारा -

- (1) अस्वीकृत आवेदन पत्र :- निर्णय के पश्चात अस्वीकृत आवेदन पत्रों को निष्क्रिय मानते हुए वित्तीय वर्ष की समाप्ति के एक माह के पश्चात निपटारा किया जा सकेगा।
- (2) ऐसी संस्थाओं के आवेदनों को जिन्हें अनुदान प्राप्त हो चुका है, अंकेक्षण के तुरंत पश्चात नष्ट किया जाएगा तथा कोई पृच्छा/दावा स्वीकार नहीं किया जाएगा।

#### भाग - तीन संधारण अनुदान

#### 12. संधारण अनुदान -

- (1) यह एक आवर्ती अनुदान है, जिसे संस्थाओं की गतिविधियों के प्रचालन और संधारण के लिए दिया जा सकेगा -
  - (क) प्रशिक्षण।
  - (ख) कला प्रदर्शन।
- (2) यह अनुदान वार्षिक आधार पर स्वीकृत किया जाएगा तथा आवेदित आयोजन/परियोजना लागत का अधिकतम 90 प्रतिशत तक सीमित होगा।

#### भाग - चार उपकरण अनुदान

#### 13. उपकरण अनुदान -

- (1) यह अनावर्ती अनुदान है, जो किसी मान्यता प्राप्त कला सांस्कृतिक संस्थान को उपकरण और फर्नीचर क्रय के प्रयोजन के लिए दिया जा सकेगा, जिसमें पुस्तकें नक्शे, चार्ट, दृश्य - श्रव्य उपकरण, विद्युत उपकरण तथा ऐसी वस्तुएं सम्मिलित होंगी, जो संस्कृति विभाग द्वारा आवश्यक समझी जाएं।

- (2) उपकरण अनुदान मान्यता प्राप्त शिक्षण संस्थान को विनिर्दिष्ट प्रयोजन के लिए दिया जा सकता है ।
- (3) उपकरण अनुदान की अधिकतम सीमा —  
 पुस्तकें, विद्युत् उपकरण, श्रव्य — दृश्य उपकरण, ध्वनि उपकरण, संगीत बाद्य, कैमरा, रिकॉर्ड प्लेयर तथा कर्मशाला के अन्य उपकरणों पर वास्तविक व्यय की 90 प्रतिशत तक होगी।

**भाग — पांच**  
**शिविर एवं आयोजन अनुदान**

**14. शिविर एवं आयोजन अनुदान —**

- (1) यह कला संस्था अथवा अन्य संस्थानों को निम्नलिखित प्रयोजन के लिए दिया जा सकता :—
- (क) प्रशिक्षण से जुड़े किसी शिविर अथवा आयोजन के लिए;
- (ख) किसी विशिष्ट प्रयोजन के कार्य हेतु शिविर।
- (2) शिविर और आयोजन अनुदान की अधिकतम सीमा प्रस्तावित सकल व्यय के 90 प्रतिशत तक होगी।

**भाग — छः**  
**अनुदान समिति**

**15. अनुदान समिति का गठन —**

- (1) योजनान्तर्गत प्राप्त अनुदान प्रस्तावों पर विचार कर अनुदान की अनुशंसा करने हेतु अनुदान समिति गठित की जाएगी जो निम्नलिखित से मिलकर बनेगी :—

1	संचालक, संस्कृति संचालनालय	अध्यक्ष
2	उप/अवर सचिव, संस्कृति विभाग	सदस्य
3	उप/अवर सचिव, वित्त विभाग	सदस्य
4	निदेशक, उस्ताद अलाउद्दीन खाँ संगीत एवं कला अकादमी, भोपाल	सदस्य
5	निदेशक, जनजातीय लोक कला एवं बोली विकास अकादमी, भोपाल	सदस्य
6	निदेशक, साहित्य अकादमी, भोपाल	सदस्य
7	विभिन्न क्षेत्रों में चार अशासकीय सदस्य (प्रदेश के साहित्य और कला क्षेत्र के मनोनीत विशेषज्ञ : रंगकर्म 1, संगीत 1, — साहित्य-1, ललित कला -1 ) (राज्य शासन द्वारा मनोनित)	सदस्य
8	उप संचालक/कार्यालय प्रमुख, संस्कृति संचालनालय, म.प्र.	सदस्य सचिव

- (2) समिति में मनोनीत अशासकीय सदस्यों का कार्यकाल अधिकतम तीन वर्ष का रहेगा।
- (3) अनुदान राशि के संबंध में उक्त समिति की अनुशंसा और इस पर प्रदत्त प्रशासनिक अनुमोदन अंतिम निर्णय होगा।

#### राज्य शासन की शक्ति

#### 16. राज्य शासन की शक्ति —

- (1) राज्य शासन वित्तीय वर्ष के दौरान अपरिहार्य स्थितियों में आवश्यकतानुसार अनुदान स्वीकृत करने में सक्षम होगा।
- (2) राज्य शासन, सामान्य या विशेष आदेश द्वारा किसी भी संस्था को इन नियमों के प्रवर्तन से छूट दे सकती और उन्हें तदर्थ या किसी अन्य विशेष आधार पर अनुदान उपलब्ध कर सकेगा।
- (3) यदि इन नियमों के कार्यान्वयन में कोई कठिनाई उत्पन्न होती है, तो राज्य शासन इसे हटाने के लिए उपयुक्त आदेश पारित कर सकती है।

#### 17. अपील —

कोई भी व्यथित संगठन/संस्था प्रभारी सचिव, संस्कृति विभाग को अनुमोदन प्रदान करने के संबंध में अपील या अभ्यावेदन प्रस्तुत कर सकता है। उसके पास किसी भी अपील/प्रतिवेदन को अंतिम रूप से निपटाने की शक्ति होगी।

मध्यप्रदेश के राज्यपाल के नाम से तथा आदेशानुसार,  
सुनील दुबे, उपसचिव.

### चेक-लिस्ट

(पूर्ण रूप से भरकर, आवेदन पत्र के साथ संलग्न करें)

क्र.	संलग्न की जाने वाली जानकारी/दस्तावेज	आवेदन प्रपत्र का बिन्दु क्र.	जानकारी/दस्तावेज संलग्न किया है। (हाँ/नहीं अथवा लागू नहीं लिखें)	परिशिष्ट क्रमांक	आवेदन के साथ संलग्नक का पृष्ठ क्र.	
					पृष्ठ क्र. से	पृष्ठ क्र. तक
1	संस्था का म.प्र. सोसायटी रजिस्ट्रीकरण अधिनियम के तहत वैध पंजीयन प्रमाण-पत्र की प्रति।	(1) (ड)				
2	संस्था की नियमावली/विधान (रजिस्ट्रार द्वारा प्रमाणित) की प्रति।	(1) (च)				
3	धारा 27/28 के अंतर्गत संस्था की वैधता का नवीनतम प्रमाण-पत्र की प्रति।	(2)				
4	संस्था की कार्यकारिणी की रजिस्ट्रार, फर्म्स एवं सोसायटी द्वारा सत्यापित नवीनतम सूची की प्रति।	(4)				
5	संस्था का आयकर PAN की प्रति।	(5)				
6	निर्धारित प्रपत्र में बैंक का ऑथेंटिकेशन लेटर।	(6)				
7	संस्था के बैंक खाते के पासबुक के प्रथम पृष्ठ (नाम, पता, खाता संख्या, खाते का प्रकार) की प्रति।	(7)				
8	संस्था के विगत तीन वर्षों के मुख्य कार्यकलाप/गतिविधियों का विवरण (प्रमाणित साक्ष्य सहित)	(8)				
9	विगत तीन वर्षों में संस्कृति संचालनालय से प्राप्त अनुदान एवं इसके उपयोग की जानकारी (गतिविधियों एवं व्यय विवरण सहित)	(9)				
10	संचालनालय द्वारा संस्था को विगत तीन वर्षों में स्वीकृत अनुदान का, सी.ए. द्वारा प्रमाणित वर्षवार उपयोगिता प्रमाण-पत्र की मूल प्रति।	(10)				
11	संस्था द्वारा अनुदान हेतु प्रस्तावित कार्यक्रम/शीर्षक तथा संक्षिप्त विवरण।	(12)				
12	विगत तीन वर्षों के ऑडिटेड आय-व्यय/प्राप्ति भुगतान एवं बैलेन्स शीट	(14)				



**बैंक ऑथेंटिकेशन प्रमाण-पत्र**

मैं/हम ..... (समिति का नाम) संस्कृति संचालनालय द्वारा हमको संवितरित राशि इलेक्ट्रॉनिक माध्यम से अपने बैंक खाता में चाहते हैं। संस्था के बैंक खाते का ब्यौरा नीचे दिया गया है :-

**प्राप्तकर्ता का विवरण**

प्राप्तकर्ता (संस्था) का नाम जैसा कि बैंक खाते में है	
पता	
पिनकोड	
राज्य	
दूरभाष नंबर	
मोबाईल नंबर	
ई-मेल का पता (यदि हो)	
<b>बैंक ब्यौरे</b>	
बैंक का नाम	
बैंक शाखा (पूर्ण पता और दूरभाष नंबर)	
खाते का प्रकार	
बैंक खाता नंबर	
इलेक्ट्रॉनिक अंतरण की सुविधा उपलब्ध है ECS/RTGS/NEFT	
IFSC code	
MICR Code	

हस्ताक्षर : .....

संस्था पदाधिकारी का नाम : .....

पता : .....

संस्था की रबर सील : .....

उक्त संस्था का बैंक खाता नंबर और आई.एफ.एस.सी./एम.आई.सी.आर. कोड आदि, ऊपर दिये गए हैं, वह मेरे द्वारा सत्यापित किए गए हैं और शुद्धतः अभिलिखित किए गए हैं।

(खाता संधारण करने वाली शाखा)

(बैंक प्रबंधक द्वारा रबर पद मुद्रा एवं हस्ताक्षर द्वारा प्रमाणिकरण किया जाए)

आवेदन पत्र प्रारूप  
'अशासकीय संस्थाओं को वित्तीय सहायता योजना' के अन्तर्गत  
वित्तीय सहायता अनुदान के लिए आवेदन-पत्र

प्रति,

संचालक,  
 संस्कृति संचालनालय, भोपाल

विषय: वित्तीय सहायता/सहायता अनुदान हेतु आवेदन।

महोदय/महोदया,

हम, एतद्वारा वित्तीय सहायता/सहायता अनुदान हेतु निम्नलिखित आवेदन प्रस्तुत करते हैं, अर्थात् :-

वित्तीय वर्ष .....

(1) संस्था/संगठन का विवरण :-

(क) संस्था का नाम .....

(ख) संस्था का वर्तमान पूर्ण पता .....  
 (पिनकोड सहित) .....

(ग) संस्था की स्थापना का वर्ष .....

(घ) संस्था का म.प्र. सोसायटी रजिस्ट्रीकरण अधिनियम के तहत पंजीयन क्रमांक/दिनांक : .....

(ङ) पंजीयन प्रमाण-पत्र की प्रति परिशिष्ट क्र.

(च) प्रमाणित विधान/नियमावली की प्रति परिशिष्ट क्र.

(2) धारा 27/28 के अंतर्गत संस्था की वैधता का प्रमाण परिशिष्ट क्र.

(3) संस्था के वर्तमान पदाधिकारियों के नाम, पते एवं दूरभाष/मोबाइल नं.

पदनाम	नाम	पता	दूरभाष/मोबाईल नं.
संरक्षक			
अध्यक्ष/निदेशक			
उपाध्यक्ष/उप निदेशक			
कोषाध्यक्ष			
सचिव			

- (4) संस्था की कार्यकारिणी की रजिस्ट्रार फर्म्स एवं सोसायटी द्वारा सत्यापित नवीनतम सूची परिशिष्ट क्र.
- (5) संस्था का PAN नं. की प्रति परिशिष्ट क्र.
- (6) संस्था के बैंक खाते की जानकारी/ऑथेंटिकेशन लेटर परिशिष्ट क्र.
- (7) संस्था की बैंक खाते के पास बुक की प्रथम पृष्ठ (नाम, पता, खाता संख्या, खाते का प्रकार) की प्रति संलग्न करें। परिशिष्ट क्र.
- (8) संस्था की विगत तीन वर्षों की वर्षवार मुख्य गतिविधियां (संक्षिप्त में) एवं समाचार पत्रों में (दिनांक एवं संस्करण सहित) प्रकाशित कार्यक्रमों के फोटोग्राफ/सी.डी. अनिवार्यतः संलग्न करें। (जिसमें पिछले तीन वर्षों के पृथक-पृथक प्रमाणित साक्ष्य हों) परिशिष्ट क्र.
- (9) विगत तीन वर्षों में संस्कृति संचालनालय से प्राप्त सहायता अनुदान की राशियां एवं इसके उपयोग से सम्पन्न गतिविधियों के ब्यौरे (आवश्यक होने पर परिशिष्ट संलग्न करें) परिशिष्ट क्र.

वर्ष	प्राप्त अनुदान (रु. लाख में)	कार्यक्रम का नाम	विधा/कलारूप	व्यय की गई राशि (रु. लाख में)
(1)	(2)	(3)	(4)	(5)
				योग
				योग
				योग

- (10) संचालनालय द्वारा संस्था को विगत तीन वर्षों में स्वीकृत (यदि स्वीकृत की गयी हो) अनुदान राशि के उपयोग का वर्षवार अंकक्षित (चार्टर्ड अकाउंटेंट द्वारा प्रमाणित) उपयोगिता प्रमाण-पत्र, व्यय विवरण सहित संलग्न करें। परिशिष्ट क्र.

- (11) पिछले तीन वर्षों में भारत सरकार एवं किसी अन्य स्रोतों से प्राप्त अनुदान के ब्यौरे और प्रयोजन :-

वर्ष	संस्था का नाम जहां से अनुदान प्राप्त हुआ	अनुदान राशि (रु.)	प्रयोजन
(1)	(2)	(3)	(4)

- (12) संस्था द्वारा प्रस्तावित कार्यक्रमों का नाम/शीर्षक (जिसके लिए अनुदान चाहा गया है) तथा विवरण (अधिकतम 300 शब्दों में) एवं मदवार लागत विवरण। परिशिष्ट क्र.

- (13) चाही गई वित्तीय सहायता राशि रु.....

- (14) विगत तीन वर्षों के चार्टर्ड अकाउंटेंट द्वारा ऑडिटेड आय-व्यय, प्राप्ति भुगतान, बैलेन्स शीट एवं अंकेक्षण प्रतिवेदन संलग्न करें :-

- |                       |                                    |
|-----------------------|------------------------------------|
| 1. वित्तीय वर्ष ..... | परिशिष्ट क्र. <input type="text"/> |
| 2. वित्तीय वर्ष ..... | परिशिष्ट क्र. <input type="text"/> |
| 3. वित्तीय वर्ष ..... | परिशिष्ट क्र. <input type="text"/> |

शर्तें :-

- आवेदन के साथ संलग्न चेक-लिस्ट पूर्ण रूप से भरी हो एवं वांछित समस्त संलग्न अभिलेख, संस्था के सक्षम प्राधिकारी द्वारा प्रमाणित किया जाना अनिवार्य है।
- जिन संस्थाओं को इस योजना के अन्तर्गत अनुदान स्वीकृत किया जायेगा उन्हें उस वित्तीय वर्ष में संचालनालय से पृथक से अन्य कोई सहायता/सहयोग प्रदान नहीं किया जा सकेगा।
- जिस कार्यक्रम/गतिविधि के लिये कितनी-कितनी राशि का अनुदान चाहा गया है, कंडिका 12 में इसका स्पष्ट उल्लेख अनिवार्य है। इसके आधार पर ही आवेदन विचारार्थ रखा जा सकेगा।
- सक्षम समिति के विचार उपरान्त जिन संस्थाओं को अनुदान दिया जायेगा, उनके आवेदन संचालनालय के उस वित्तीय वर्ष के प्रथम अंकेक्षण/एक वर्ष तक एवं जिन संस्थाओं को अनुदान स्वीकृत नहीं होगा, उनके आवेदन अनुदान स्वीकृति आदेश जारी होने के एक माह पश्चात विनिष्ट किये जा सकेंगे। इसके लिये किसी भी तरह की मांग अथवा प्रश्न नहीं किया जा सकेगा।

5. समयावधि में प्रस्तुत आवेदनों में किसी प्रकार की अपूर्णता तथा वांछित परिशिष्ट/संलग्नक, चेक लिस्ट के निर्धारित अनुक्रम में संलग्न नहीं पाये जाने पर, आवेदन विचार योग्य नहीं माना जावेगा।
6. संस्थाओं को सहायता, अनुदान नियमों के निर्धारित मापदण्डों और राशि की उपलब्धता के आधार पर सक्षम समिति द्वारा परीक्षणोपरान्त अनुशंसित की जावेगी। समिति की अनुशंसा पर लिया गया निर्णय अन्तिम एवं सर्वमान्य होगा, जिसके संबंध में कोई पत्राचार मान्य नहीं होगा।
7. पात्र संस्थाओं को स्वीकृत अनुदान राशि का भुगतान ई-भुगतान के माध्यम से ही किया जावेगा। अतः ई-भुगतान हेतु बैंक की सही एवं पूर्ण जानकारी निर्धारित "बैंक अथोराइजेशन लेटर" में प्रस्तुत किया जाना अनिवार्य है।

मैं ..... पद .....,  
 संस्था का नाम ....., सत्यतापूर्वक यह अभिकथन करता हूँ  
 कि संस्था की ओर से अनुदान आवेदन प्रस्तुत करने तथा संलग्न दस्तावेजों/प्रतिलिपियों को  
 सत्यापित/प्रमाणित करने हेतु अधिकृत हूँ तथा संस्था की उक्त प्रस्तुत/संलग्न समस्त  
 जानकारी/विवरण सत्य है। हमारी संस्था को सहायता अनुदान योजना संबंधी समस्त  
 शर्तें-नियम स्वीकार हैं। हम वचन देते हैं एवं इससे पूरी तरह सहमत हैं कि अनुदान हेतु  
 प्रस्तुत अस्वीकृत आवेदन निर्णय होने के वित्तीय वर्ष की समाप्ति के एक माह पश्चात एवं  
 अनुदान स्वीकृत/प्राप्त संस्थाओं के आवेदन उस वर्ष के प्रथम अंकेक्षण के तत्काल बाद  
 विनिष्ट कर दिये जायें। तथा आवेदन के साथ संलग्न किये गये समस्त अभिलेख मेरी संस्था  
 की व्यक्तिगत जानकारी होने के कारण किसी अन्य को दिये जाने हेतु सहमत नहीं हूँ।

संस्था पदाधिकारी के हस्ताक्षर  
 (नाम/पदनाम एवं मुद्रा)

## श्रम विभाग

### मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार कल्याण मण्डल

भोपाल, दिनांक 5 मार्च 2024

अधिसूचना क्रमांक/भ.स.क.क.म./2024/.....भवन और अन्य संनिर्माण कर्मकार (नियोजन तथा सेवाशर्तों का विनियमन) अधिनियम 1996 की धारा 22 की उपधारा (1)(h) सहपठित मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार (नियोजन तथा सेवाशर्तों का विनियमन) नियम, 2002 के नियम 277, 278 एवं 279 में प्रदत्त शक्तियों का प्रयोग करते हुये मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार कल्याण मंडल राज्य शासन के पूर्व अनुमोदन से, अधिसूचित योजना "मुख्यमंत्री भवन एवं अन्य संनिर्माण कर्मकार आवास (ग्रामीण) योजना 2013" में उल्लेखित प्रसूविधाओं से संबंधित प्रक्रियात्मक तथा विशिष्ट मामलों को अभिकथित करने वाली पूर्व में जारी समस्त अधिसूचनाओं को एतद द्वारा निरस्त करता है तथा "मुख्यमंत्री निर्माण श्रमिक ग्रामीण आवास हेतु अनुदान योजना 2024" अधिसूचित करता है:-

### "मुख्यमंत्री निर्माण श्रमिक ग्रामीण आवास हेतु अनुदान योजना 2024"

#### 1. संक्षिप्त नाम, विस्तार, परिधि और लागू होना

- यह योजना "मुख्यमंत्री निर्माण श्रमिक ग्रामीण आवास हेतु अनुदान योजना 2024" कहलाएगी।
- यह योजना सम्पूर्ण मध्यप्रदेश राज्य में लागू होगी।
- यह योजना मध्यप्रदेश राजपत्र में प्रकाशन के दिनांक से लागू होगी।

#### 2. परिभाषाएं

- "अधिनियम" - का आशय "भवन और अन्य संनिर्माण कर्मकार (नियोजन तथा सेवाशर्तों का विनियमन) अधिनियम 1996" से है।
- "नियम" - का आशय "मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार (नियोजन तथा सेवाशर्तों का विनियमन) नियम, 2002" से है।
- "बोर्ड या मंडल" - का आशय अधिनियम की धारा 18 की उपधारा (1) के अधीन गठित "मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार कल्याण मंडल" से है।
- "सचिव" - का आशय अधिनियम की धारा 19 के अधीन नियुक्त "मंडल के सचिव" से है।
- "पंजीकृत निर्माण श्रमिक" - का आशय अधिनियम की धारा 12, सहपठित नियम 272 के अंतर्गत मंडल के पोर्टल पर वैध कार्डधारी पंजीकृत निर्माण श्रमिक से है।
- "आवास हितग्राही" - से आशय प्रधानमंत्री आवास योजना (ग्रामीण) में आवास आवंटित होने वाले व्यक्ति से है।
- "आवास योजना"- से आशय प्रधानमंत्री आवास योजना (ग्रामीण) से है।
- इस योजना में परिभाषित नहीं किए गए शब्दों का निर्वचन उन शब्दों या पदों के संबंध में जिन्हें अधिनियम या नियम में परिभाषित किया गया है वही अर्थ होगा, जो अधिनियम या नियम में परिभाषित हैं।

- उद्देश्य-** इस योजना का उद्देश्य ऐसे पंजीकृत भवन एवं अन्य संनिर्माण श्रमिकों को लाभान्वित करना है जिन्हें या तो स्वयं अथवा उनके पति/पत्नी को प्रधानमंत्री आवास योजना (ग्रामीण) में आवास आवंटित हुआ है। हितलाभ के रूप में हितग्राही को म.प्र. भवन एवं अन्य संनिर्माण कर्मकार कल्याण मण्डल की ओर से 50 हजार रुपये का अतिरिक्त अनुदान प्रदाय किया जाएगा ताकि उनके द्वारा आवास योजना में आवंटित राशि से निर्माण कराए गये आवास का प्लास्टर/रंगाई-पुताई, बिजली फिटिंग, बिजली के जरूरी उपकरणों की खरीदी इत्यादि कार्य करवाये जा सकें।

**4. योजना में लाभ प्राप्त करने हेतु पात्रता -**

- आवास हितग्राही को आवास योजना में आवास आवंटन होने का दिनांक, इस योजना के मध्यप्रदेश राजपत्र में प्रकाशन के दिनांक के पश्चात का होना चाहिए।
- निर्माण श्रमिक का पंजीयन दिनांक, आवास हितग्राही को आवास आवंटन दिनांक के पूर्व का होना अनिवार्य है।
- निर्माण श्रमिक का पंजीयन मण्डल के पोर्टल पर वैध होना चाहिए।
- आवास हितग्राही द्वारा आवास योजना अंतर्गत प्राप्त राशि से आवास निर्माण पूर्ण कर लेने के पश्चात ही इस योजना में अनुदान के लाभ हेतु आवेदन किया जा सकेगा।
- पंजीकृत निर्माण श्रमिक की सदस्य समग्र आई.डी. का आधार ई-के.वाई.सी. होना चाहिए एवं उसके आधार कार्ड के साथ DBT Enabled बैंक खाता लिंक होना चाहिए।
- आवास हितग्राही की सदस्य समग्र आई.डी का आधार ई-के.वाई.सी होना चाहिए।

**5. हितलाभ राशि - योजना अंतर्गत हितग्राहियों को 50 हजार रुपये की राशि का अतिरिक्त अनुदान एकमुश्त प्रदाय किया जावेगा।****6. अनुदान राशि प्रदाय करने की प्रक्रिया -**

- आवेदक द्वारा मंडल के पोर्टल पर योजना अंतर्गत आवेदन किया जाएगा एवं आवेदन के समय निर्माण श्रमिक पंजीयन क्रमांक एवं आवास हितग्राही की सदस्य समग्र आई.डी. दर्ज की जाएगी। यदि पंजीकृत निर्माण श्रमिक अथवा आवास हितग्राही में से किसी की सदस्य समग्र आई.डी. का आधार ई-के.वाई.सी लिंबित है तो पोर्टल द्वारा ई-के.वाई.सी पूर्ण करने हेतु लिंक प्रदर्शित की जाएगी।
- ई-के.वाई.सी पूर्ण होने पर आवेदक द्वारा आवास हितग्राही का नाम, आवास हितग्राही क्रमांक, आवास आवंटन होने का दिनांक, निर्माण श्रमिक का नाम, निर्माण श्रमिक से संबंध एवं संबंध के प्रमाण हेतु दस्तावेज, पूर्ण आवास का फोटो, आवास पूर्ण होने के संबंध में शपथ-पत्र इत्यादि जानकारी पोर्टल पर दर्ज एवं अपलोड की जाएगी।
- पदाभिहित अधिकारी द्वारा आवेदन में दर्ज जानकारी की जाँच की जायेगी एवं **पंचायत एवं ग्रामीण विकास विभाग** के आवास योजना पोर्टल से आवेदक को आवास आवंटित होने एवं आवास निर्माण पूर्ण होने संबंधी जानकारी का सत्यापन किया जाएगा।
- यदि आवास हितग्राही स्वयं पंजीकृत निर्माण श्रमिक न होकर, पंजीकृत निर्माण श्रमिक का पति/पत्नी है तो आवास हितग्राही के पंजीकृत निर्माण श्रमिक से संबंध की पुष्टि की जायेगी।
- पुष्टि होने पर पदाभिहित अधिकारी द्वारा अनुदान की राशि पंजीकृत निर्माण श्रमिक के आधार से लिंक बैंक खाते में ई-भुगतान आदेश के माध्यम से DBT प्रक्रिया द्वारा अंतरित की जाएगी।

**7. पदाभिहित अधिकारी - सहायक श्रमायुक्त/श्रम पदाधिकारी/सहायक श्रम पदाधिकारी, संभाग/जिला श्रम कार्यालय****8. आवेदन के निराकरण की समय-सीमा - पदाभिहित अधिकारी द्वारा आवेदन का निराकरण अनिवार्यतः आवेदन प्राप्ति दिनांक से 30 दिवस की अवधि में किया जायेगा।**

9. **लाभान्वित हितग्राहियों का रैंडम वेरीफिकेशन** - इस योजना में प्रत्येक वित्तीय वर्ष में लाभान्वित किए गए हितग्राहियों में से न्यूनतम 10 प्रतिशत हितग्राहियों का रैंडम वेरीफिकेशन किया जाएगा। यह वेरीफिकेशन किसी हितग्राही विशेष के संबंध में शिकायत प्राप्त होने पर भी की जा सकेगी। यदि वेरीफिकेशन में हितग्राही अपात्र पाया जाता है और उसके द्वारा दी गई स्व-घोषणा असत्य पाई जाती है तो उस व्यक्ति से राशि की वसूली की जाकर शासन के नियमानुसार दंडात्मक कार्यवाही की जावेगी।
10. **विसंगति का निवारण** - योजना में उल्लेखित शर्तों/नियमों के अतिरिक्त यदि कोई विसंगति उत्पन्न होती है, उस स्थिति में मंडल के सचिव का निर्णय अंतिम होगा।

भोपाल, दिनांक 6 मार्च 2024

अधिसूचना क्रमांक/भ.स.क.क.म./2024/४६४....भवन और अन्य संनिर्माण कर्मकार (नियोजन तथा सेवाशर्तों का विनियमन) अधिनियम 1996 की धारा 22 की उपधारा (1) की कंडिका (f) सहपठित मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार (नियोजन तथा सेवाशर्तों का विनियमन) नियम, 2002 के नियम 279 में प्रदत्त शक्तियों का प्रयोग करते हुये मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार कल्याण मंडल राज्य शासन के अनुमोदन पश्चात 'म.प्र. भवन एवं अन्य संनिर्माण कर्मकार चिकित्सा सहायता (आयुष्मान भारत) योजना 2022' अधिसूचित करता है:-

**1. संक्षिप्त नाम, विस्तार, परिधि और लागू होना**

- यह योजना "म.प्र. भवन एवं अन्य संनिर्माण कर्मकार चिकित्सा सहायता (आयुष्मान भारत) योजना 2022" कहलाएगी।
- यह योजना सम्पूर्ण मध्यप्रदेश राज्य में लागू होगी।
- यह योजना दिनांक 01.04.2022 से प्रभावी माना जावेगी।
- यह योजना उन भवन एवं अन्य संनिर्माण कर्मकारों पर प्रभावी होगी, जो अधिनियम की धारा 12 सहपठित नियम 272 के अंतर्गत हिताधिकारी परिचय पत्र धारी निर्माण श्रमिक हैं।

**2. परिभाषाएं**

- "अधिनियम" - का आशय "भवन और अन्य संनिर्माण कर्मकार (नियोजन तथा सेवाशर्तों का विनियमन) अधिनियम 1996" से है।
- "नियम" - का आशय "मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार (नियोजन तथा सेवाशर्तों का विनियमन) नियम, 2002" से है।
- "बोर्ड या मंडल" - का आशय अधिनियम की धारा 18 की उपधारा (1) के अधीन गठित "मध्यप्रदेश भवन एवं अन्य संनिर्माण कर्मकार कल्याण मंडल" से है।
- "सचिव" - का आशय अधिनियम की धारा 19 के अधीन नियुक्त "मंडल के सचिव" से है।
- "स्टेट हेल्थ एजेंसी" - से आशय लोक स्वास्थ्य एवं परिवार कल्याण विभाग अंतर्गत पंजीकृत दीनदयाल स्वास्थ्य सुरक्षा परिषद (आयुष्मान भारत निरामयम) से है।
- "पंजीकृत निर्माण श्रमिक" - का आशय अधिनियम की धारा 12, सहपठित नियम 272 के अंतर्गत मंडल के पोर्टल पर पंजीकृत वैध कार्डधारी निर्माण श्रमिक से है।
- "योजना" - से आशय मध्यप्रदेश लोक स्वास्थ्य एवं परिवार कल्याण विभाग की आयुष्मान भारत 'निरामयम' योजना के अनुरूप संचालित "म.प्र. भवन एवं अन्य संनिर्माण कर्मकार चिकित्सा सहायता (आयुष्मान भारत) योजना 2022" से है।
- "चिकित्सालय" - से आशय आयुष्मान भारत निरामयम योजना के अंतर्गत अधिसूचित/चिह्नित चिकित्सालयों से है।
- "हितग्राही" - से आशय 'समस्त वैध परिचय पत्रधारी भवन एवं अन्य संनिर्माण श्रमिकों एवं उनके पंजीयन कार्ड में सम्मिलित आश्रित परिवार के सदस्य' से है।



1. इस योजना में परिभाषित नहीं किए गए शब्दों का निर्वचन उन शब्दों या पदों के संबंध में जिन्हें अधिनियम या नियम में परिभाषित किया गया है वही अर्थ होगा, जो अधिनियम या नियम में परिभाषित हैं।
3. **उद्देश्य** - इस योजना का उद्देश्य म.प्र. भवन एवं अन्य संनिर्माण कर्मकार कल्याण मण्डल के पंजीकृत निर्माण श्रमिकों एवं उनके पंजीयन कार्ड में जुड़े परिवार के सदस्यों को आयुष्मान भारत योजना में निःशुल्क चिकित्सा का लाभ प्रदाय करना है।
4. **योजना में लाभ प्राप्त करने हेतु पात्रता** - इस योजना में निःशुल्क चिकित्सा का लाभ केवल निम्नलिखित हितग्राहियों को प्रदाय किया जायेगा :-
  - a. वैध पंजीयन धारी भवन एवं अन्य संनिर्माण श्रमिक
  - b. वैध पंजीयन धारी भवन एवं अन्य संनिर्माण श्रमिक के पंजीयन कार्ड में जुड़े परिवार के सदस्य
5. **हितलाभ राशि** - योजनांतर्गत हितग्राहियों को आयुष्मान भारत योजना अंतर्गत अधिसूचित/चिन्हित चिकित्सालयों में प्रति वित्तीय वर्ष प्रति परिवार रु. 05 लाख तक का निःशुल्क चिकित्सा का लाभ प्रदाय किया जायेगा।
6. **हितलाभ हेतु सम्मिलित करने की प्रक्रिया** -
  - a. मंडल के हितग्राहियों को आयुष्मान भारत योजना में हितलाभ हेतु सम्मिलित करने के लिए मंडल तथा आयुष्मान भारत 'निरामयम' के मध्य एम.ओ.यू. हस्ताक्षरित किया जावेगा।
  - b. आयुष्मान भारत 'निरामयम' द्वारा मंडल के समस्त हितग्राहियों का आयुष्मान भारत योजना में पंजीयन करवाया जावेगा।
7. **हितग्राही द्वारा हितलाभ प्राप्त करने की प्रक्रिया** -
  - a. मंडल के हितग्राहियों द्वारा आयुष्मान भारत योजना में अधिसूचित/चिन्हित चिकित्सालयों में निःशुल्क चिकित्सा का लाभ प्राप्त किया जायेगा।
  - b. चिकित्सालयों को चिकित्सा राशि का भुगतान 'स्टेट हेल्थ एजेंसी' द्वारा किया जायेगा। हितग्राहियों द्वारा वास्तविकता में चिकित्सालयों में इलाज कराया गया है अथवा नहीं तथा चिकित्सालय द्वारा चिकित्सा राशि का सही क्लेम स्टेट हेल्थ एजेंसी से किया गया है अथवा नहीं, यह जांच करने की समस्त जिम्मेदारी स्टेट हेल्थ एजेंसी की होगी।
  - c. स्टेट हेल्थ एजेंसी द्वारा आयुष्मान भारत योजना में निःशुल्क चिकित्सा का लाभ प्राप्त करने वाले हितग्राहियों की सूची मंडल को प्रस्तुत की जावेगी एवं चिकित्सा राशि की प्रतिपूर्ति हेतु राशि की मांग मंडल से की जावेगी।
  - d. मंडल द्वारा स्टेट हेल्थ एजेंसी से प्राप्त हितग्राहियों की सूची का मिलान स्वयं के डेटाबेस से किया जावेगा एवं मंडल के हितग्राहियों हेतु चिकित्सा राशि की प्रतिपूर्ति स्टेट हेल्थ एजेंसी को की जावेगी।
8. **योजना का क्रियान्वयन** - योजना के क्रियान्वयन की अन्य शर्तें मंडल तथा स्टेट हेल्थ एजेंसी के मध्य संपादित एम.ओ.यू. में उल्लेखित प्रावधानों के अनुसार होगी।
9. **विसंगति का निवारण** - योजना में उल्लेखित शर्तों/नियमों के अतिरिक्त यदि कोई विसंगति उत्पन्न होती है, उस स्थिति में मंडल के सचिव का निर्णय अंतिम होगा।

रत्नाकर झा, सचिव.

## अन्तिम विनियम

### मध्यप्रदेश विद्युत नियामक आयोग

पंचम तल, मेट्रो प्लाजा, विट्टन मार्केट, ई-5, अरेरा कॉलोनी, भोपाल

भोपाल, दिनांक 5 मार्च 2024

क्रमांक 616/म प्र वि नि आ/2024 विद्युत अधिनियम, 2003 (क्रमांक, 36, वर्ष 2003) की धारा 181 सहपठित धारा 61, 66 तथा 86 के अधीन प्रदत्त समस्त अर्हकारी शक्तियों का प्रयोग करते हुए मध्यप्रदेश विद्युत नियामक आयोग एतद्वारा निम्न विनियम बनाता है, अर्थात् :

### मध्यप्रदेश विद्युत नियामक आयोग (संसाधन पर्याप्तता हेतु संरचना) विनियम, 2024 अध्याय 1

#### प्रारम्भिक

1. संक्षिप्त शीर्षक, विस्तार एवं प्रारंभ
  - 1.1 ये विनियम "मध्यप्रदेश विद्युत नियामक आयोग (संसाधन पर्याप्तता हेतु संरचना) विनियम, 2024 (आरजी-19 (III), वर्ष 2024)" कहलायेंगे।
  - 1.2 ये विनियम सम्पूर्ण मध्यप्रदेश राज्य में लागू होंगे।
  - 1.3 ये विनियम मध्यप्रदेश राज्य में उक्त तिथि से लागू होंगे जैसा कि आयोग द्वारा पृथक से इस बारे में अधिसूचित किया जाए।
2. उद्देश्य
  - 2.1 इन विनियमों का उद्देश्य किसी अनुकूलतम विद्युत उत्पादन मिश्र के साथ भार को सेवाकृत करने हेतु निर्दिष्ट विश्वसनीयता मानकों के साथ अनुपालन में प्रक्षेपित मांग की विश्वसनीय पूर्ति हेतु विद्युत उत्पादन संसाधनों के नियोजन हेतु क्रियाविधि को रेखांकित करते हुए संसाधन पर्याप्तता संरचना के क्रियान्वयन हेतु सामर्थ्य प्रदान करना है।
  - 2.2 संसाधन पर्याप्तता संरचना (Resource Adequacy Framework) के अन्तर्गत मांग आकलन तथा पूर्वानुमान हेतु क्रियाविधि तथा पूर्वानुमान, विद्युत उत्पादन संसाधन नियोजन, अधिप्राप्ति नियोजन, इसके अनुश्रवण तथा अनुपालन को सम्मिलित किया जाएगा।
3. विस्तार क्षेत्र एवं प्रयोज्यता
 

ये विनियम मध्यप्रदेश राज्य के भीतर स्थित विद्युत उत्पादन कम्पनियों, वितरण अनुज्ञापिधारियों, राज्य भार प्रेषण केन्द्र, पारेषण कम्पनियों, अन्य ग्रिड संयोजित इकाइयों तथा हितधारकों को लागू होंगे।
4. परिभाषाएं
  - 4.1 इन विनियमों में जब तक संदर्भ से अन्यथा अपेक्षित न हो,
    - (क) "अधिनियम" से अभिप्रेत है, विद्युत अधिनियम, 2003 (क्रमांक 36, वर्ष 2003) तथा इसके अनुवर्ती संशोधन ;
    - (ख) "प्राधिकरण" अथवा "केविप्रा" से अभिप्रेत है केन्द्रीय विद्युत प्राधिकरण जैसा कि इसे अधिनियम की धारा 70 की उपधारा (1) में निर्दिष्ट किया गया है;

- (ग) "क्षमता क्रेडिट (Capacity Credit)" अथवा "(CC)" से अभिप्रेत है संसाधन की नामपट्टिका क्षमता (nameplate capacity) का प्रतिशत जिसे गणना संसाधन पर्याप्तता आवश्यकताओं के प्रति की जा सकती है ;
- (घ) "केविनिआ (CERC)" से अभिप्रेत है केन्द्रीय विद्युत विनियामक आयोग ;
- (ङ) "विद्युत ऊर्जा सर्वेक्षण (Electric Power Survey)" अथवा "(EPS)" से अभिप्रेत है प्रत्येक विद्युत वितरण कम्पनी/राज्य/केन्द्र शासित प्रदेश/क्षेत्र तथा देश हेतु मध्यम तथा दीर्घ-अवधि आधार पर विद्युत मांग के आकलन हेतु केन्द्रीय विद्युत प्राधिकरण द्वारा संचालित किया गया नियतकालिक विद्युत ऊर्जा सर्वेक्षण;
- (च) "अ-सेवाकृत प्रत्याशित ऊर्जा (Expected Energy Not Served)" अथवा "(EENS)" से अभिप्रेत है ऊर्जा की प्रत्याशित मात्रा (MUs) जिसे संसाधन पर्याप्तता नियोजन हेतु नियोजन अवधि के भीतर प्रत्येक वर्ष हेतु सेवाकृत न किया जा सके ;
- (छ) "दीर्घ-अवधि (Long-Term)" से अभिप्रेत है मांग पूर्वानुमान (Demand Forecast) तथा विद्युत उत्पादन संसाधन नियोजन (Generation Resource Planning) के विकास हेतु पांच वर्ष से अधिक की अवधि ;
- (ज) "दीर्घ-अवधि ऊर्जा अधिप्राप्ति (Long-Term Power Procurement)" से अभिप्रेत है किसी व्यवस्था अथवा अनुबन्ध के अधीन ऊर्जा की अधिप्राप्ति जिसकी कालावधि अथवा अवधि पांच वर्ष से अधिक हो;
- (झ) "दीर्घ-अवधि वितरण संसाधन पर्याप्तता योजना (Long-Term Distribution Resource Adequacy Plan)" अथवा "LT-DRAP" से अभिप्रेत है दीर्घ-अवधि संसाधन पर्याप्तता के आकलन हेतु वितरण अनुज्ञप्तिधारी द्वारा तैयार की गई योजना ;
- (ञ) "भार संभाव्यता की हानि (Loss of Load Probability)" अथवा "(LOLP)" से अभिप्रेत है ऐसी संभावना जिसके अनुसार वर्ष के दौरान प्रणाली का भार, उस भार की पूर्ति हेतु विद्युत उत्पादन तथा उपलब्ध सुदृढ ऊर्जा के अनुबन्धों से अधिक हो ;
- (ट) "मध्यम-अवधि (Medium-Term)" से अभिप्रेत है मांग पूर्वानुमान तथा विद्युत उत्पादन संसाधन नियोजन के विकास हेतु अवधि जो एक वर्ष से अधिक तथा पांच वर्ष तक सीमित हो ;
- (ठ) "मध्यम-अवधि ऊर्जा अधिप्राप्ति (Medium-Term Power Procurement)" से अभिप्रेत है किसी व्यवस्था अथवा अनुबन्ध के अधीन ऊर्जा की अधिप्राप्ति जिसकी कालावधि अथवा अवधि एक वर्ष से अधिक तथा पांच वर्ष तक सीमित हो ;
- (ड) "मध्यम-अवधि वितरण संसाधन पर्याप्तता योजना (Medium-Term Distribution Resource Adequacy Plan)" अथवा "MT-DRAP" से

अभिप्रेत है मध्यम अवधि संसाधन पर्याप्तता के आकलन हेतु वितरण अनुज्ञप्तिधारी द्वारा तैयार की गई योजना ;

- (ढ) "मप्रविनिआ" या "आयोग" से अभिप्रेत है, मध्यप्रदेश विद्युत नियामक आयोग;
- (ण) "एमपी पावर मैनेजमेंट कम्पनी लिमिटेड (MP Power Management Company Limited)" अथवा "(MPPMCL)" से अभिप्रेत है, यथासंशोधित मध्यप्रदेश विद्युत सुधार हस्तांतरण योजना 2006 के अधीन मध्यप्रदेश शासन द्वारा गठित की गई मध्यप्रदेश राज्य की राज्य के स्वामित्व वाली तीन विद्युत वितरण कम्पनियों की नियन्त्रक कम्पनी (Holding Company) ;
- (त) "माह" से अभिप्रेत है ग्रेगोरियन कैलेंडर (Gregorian Calender) के अनुसार कैलेंडर माह ;
- (थ) "शुद्ध भार (Net Load)" से अभिप्रेत है किसी समय-खण्ड (time block) के दौरान ग्रिड पर प्रचलित सकल भार (gross load) से वास्तविक नवीकरणीय ऊर्जा विद्युत उत्पादन (मेगावाट) के बहिष्करण(exclusion) द्वारा व्युत्पन्न (derived) या प्राप्त किया गया भार (Load);
- (द) "अ-सेवाकृत सामान्यीकृत ऊर्जा (Normalized Energy Not Served)" अथवा "(NENS)" से तात्पर्य है अ-सेवाकृत प्रत्याशित ऊर्जा (Expected Energy Not Served-EENS) का सामान्यीकरण (normalization) जिसे इसके कुल प्रणाली ऊर्जा (Total System Energy)(MUs) के विभाजन द्वारा प्राप्त किया जाता है ;
- (ध) "नियोजन संचिति परिसीमा (Planning Reserve Margin)" अथवा "(PRM)" से अभिप्रेत है राष्ट्रीय व्यस्ततम मांग (National Peak Demand) में राज्य के सम्पाती अंश (Coincident Share) के अतिरिक्त क्षमता का प्रतिशत जैसा कि इसे प्राधिकरण द्वारा निर्दिष्ट किया जाए या फिर विद्युत उत्पादन संसाधन नियोजन के प्रयोजन से समय-समय पर आयोग द्वारा अनुमोदित किया जाए ;
- (न) "पावर एक्सचेंज (Power Exchange)" से अभिप्रेत है, कोई विनियम (आदान-प्रदान) केन्द्र (एक्सचेंज) जो केन्द्रीय विद्युत विनियामक आयोग द्वारा जारी किये गये विनियमों द्वारा निर्धारित निबन्धनों के अनुसार विद्युत आपूर्ति हेतु 'पावर एक्सचेंज' के रूप में संचालित होता है ;
- (य) "विद्युत क्रय अनुबन्ध (Power Purchase Agreement-PPA)" से अभिप्रेत है अधिप्राप्तिकर्ता(ओं) तथा विक्रेता के मध्य निष्पादित अनुबन्ध/करार जिसके अनुसरण में विक्रेता अधिप्राप्तिकर्ता(ओं) को अनुबन्ध में विनिर्दिष्ट किये गये निबन्धनों/शर्तों के अनुसार विद्युत की आपूर्ति करेगा;

- (यक) “विद्युत विक्रय अनुबन्ध (Power Sale Agreement-PSA)” से अभिप्रेत है किसी विद्युत क्रय अनुबन्ध/करार के अधीन क्रय की गई विद्युत के अनुवर्ती विक्रय हेतु क्रेता इकाई(यों) तथा मध्यस्थ अधिप्राप्तिकर्ता(intermediary procurer)/व्यापारी (Trader) के मध्य निष्पादित पृष्ठासन्न (back-to-back) अनुबन्ध ;
- (यख) “विद्युत आपूर्ति अनुबन्ध (Power Supply Agreement)” से अभिप्रेत है अधिप्राप्तिकर्ताओं (Procurers) तथा विक्रेता (Seller) के मध्य निष्पादित अनुबन्ध जिसके अनुसरण पश्चात क्रेता अधिप्राप्तिकर्ताओं को विद्युत मन्त्रालय, भारत सरकार के कथित दिशा-निर्देशों, यथा 'Guidelines for long-term Procurement of Electricity from Thermal Power Stations setup on Design, Build, Finance, Own, Operate (DBFOO) basis and sourcing fuel as provided under Model Bidding Documents including allocation of Coal under B(I), B(III) and B(IV) of SHAKTI (Scheme for Harnessing & Allocating (coal) Transparently in India) Policy' के अनुसार विद्युत की आपूर्ति करेगा ;
- (यग) “संसाधन पर्याप्तता (Resource Adequacy)” अथवा “RA” से अभिप्रेत है कोई क्रियाविधि जिसके अनुसार प्रत्याशित विद्युत मांग {व्यस्ततम (Peak), अव्यस्ततम (off peak) तथा समस्त प्रचालन परिस्थितियों को सम्मिलित करते हुए} को सेवाकृत करने हेतु पर्याप्त विद्युत आपूर्ति सुनिश्चित की जाती है जिसके अनुसार नवीकरणीय ऊर्जा स्रोत के अन्तर्विराम (intermittancy) तथा परिवर्तनीयता (Variability) के प्रबन्धन के लिए ऊर्जा के स्थानान्तरण हेतु लचीले संसाधनों, संग्रहण प्रणालियों तथा मांग अनुक्रिया उपायों के साथ-साथ आवश्यकता को ध्यान में रखकर तथा पर्यावरणीय हितैषी प्रौद्योगिकियों के एकीकरण पर ध्यान केन्द्रित करते हुए विश्वसनीय तौर पर अनुकूलतम विद्युत उत्पादन मिश्र के साथ भार को सेवाकृत करने हेतु अनुपालन किया जाता है ;
- (यघ) “लघु-अवधि (Short-Term)” से अभिप्रेत है मांग पूर्वानुमान तथा विद्युत उत्पादन संसाधन नियोजन के विकास हेतु एक वर्ष तक की सीमित अवधि ;
- (यङ) “लघु-अवधि ऊर्जा अधिप्राप्ति (Short-Term Power Procurement)” से अभिप्रेत है किसी व्यवस्था अथवा अनुबन्ध के अधीन एक वर्ष तक की सीमित कालावधि अथवा अवधि हेतु ऊर्जा की अधिप्राप्ति;
- (यच) “लघु-अवधि वितरण संसाधन पर्याप्तता योजना (Short-Term Distribution Resource Adequacy Plan)” अथवा “ST-DRAP” से अभिप्रेत है लघु-अवधि संसाधन पर्याप्तता के आकलन हेतु वितरण अनुज्ञप्तिधारी द्वारा तैयार की गई योजना ;
- (यछ) “एसएलडीसी (SLDC)” से अभिप्रेत है मध्यप्रदेश राज्य का राज्य भार प्रेषण केन्द्र (State Load Despatch Centre) ;

(यज) “राज्य(State)” से अभिप्रेत है मध्यप्रदेश राज्य ; और

(यझ) “वर्ष” से अभिप्रेत है वित्तीय वर्ष जो चालू वर्ष की एक अप्रैल से प्रारंभ होकर आगामी वर्ष 31 मार्च को समाप्त होता है।

- 4.2 इन विनियमों में प्रयुक्त किन्तु विशिष्ट रूप से परिभाषित न किये गये किन्तु अधिनियम या आयोग के अन्य विनियमों या केंद्रीय विद्युत प्राधिकरण मार्गदर्शन(guidelines) में परिभाषित, अन्य समस्त शब्दों या अभिव्यक्तियों का वही अर्थ होगा जैसा कि अधिनियम या आयोग के अन्य विनियमों या केंद्रीय विद्युत प्राधिकरण मार्गदर्शन (guidelines) में उनके लिये विनिर्दिष्ट किया गया है। यहां प्रयुक्त किये गये अन्य शब्द तथा अभिव्यक्तियों को जिन्हें इन विनियमों या अधिनियम में परिभाषित नहीं किया गया है परन्तु इन्हें राज्य में विद्युत उद्योग हेतु प्रयोज्य संसद द्वारा पारित किसी विधि द्वारा पारित किया गया है उनका अर्थ ऐसी विधि के अन्तर्गत विनिर्दिष्ट अनुसार होगा।

## अध्याय 2

### सामान्य (General)

#### 5. संसाधन पर्याप्तता संरचना(Resource Adequacy Framework)

- 5.1 संसाधन पर्याप्तता संरचना में, अनुकूलतम विद्युत-उत्पादन मिश्र के साथ भार को सेवाकृत करने हेतु, निर्दिष्ट विश्वसनीयता मानकों के अनुपालन में प्रक्षेपित मांग की प्राप्ति की विश्वसनीयता हेतु विद्युत उत्पादन संसाधनों के नियोजन को सम्मिलित किया जाएगा।
- 5.2 संसाधन पर्याप्तता संरचना में निम्न चरण सम्मिलित होंगे :
- क) मांग आकलन तथा पूर्वानुमान(Demand assesment and forecasting);
  - ख) विद्युत उत्पादन नियोजन(General resource planning) ;
  - ग) अधिप्राप्ति नियोजन (Procurement planning) ; और
  - घ) अनुश्रवण एवं अनुपालन (Monitoring and compliance)।
- 5.3 संसाधन पर्याप्तता अभ्यास (Resource Adequacy exercise) को वार्षिक क्रमिक आधार पर 10 (दस) वर्षों की नियोजन अवधि हेतु विकसित तथा तैयार किया जाएगा।
- 5.4 इन विनियमों के अनुसार एमपी पावर मैनेजमेंट कम्पनी लिमिटेड (MPPMCL) वितरण अनुज्ञापिधारियों की ओर से दीर्घ-अवधि वितरण संसाधन पर्याप्तता योजना (LT-DRAP), मध्यम-अवधि वितरण संसाधन पर्याप्तता योजना (MT-DRAP) तथा लघु-अवधि वितरण संसाधन पर्याप्तता योजना (ST-DRAP) विकसित तथा तैयार करेगी।

### अध्याय 3

#### मांग आकलन तथा पूर्वानुमान (Demand Assessment and Forecasting)

#### 6. दीर्घ-अवधि तथा मध्यम-अवधि मांग पूर्वानुमान

- 6.1 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड वितरण अनुज्ञप्तिधारियों के परामर्श से केन्द्रीय विद्युत प्राधिकरण (CEA) द्वारा समय-समय पर दीर्घ-अवधि तथा मध्यम-अवधि ऊर्जा मांग पूर्वानुमान हेतु जारी दिशा-निर्देशों पर विचार करते हुए मांग आकलन तथा पूर्वानुमान विकसित तथा तैयार करेगी।
- 6.2 मांग आकलन तथा पूर्वानुमान में दीर्घ-अवधि तथा मध्यम-अवधि हेतु वितरण अनुज्ञप्तिधारी के वितरण क्षेत्र के भीतर विस्तृत निवेश आंकड़ों (input data), नीतियों तथा वैज्ञानिक मॉडलिंग औजारों (Scientific Modelling Tools) के प्रयोग द्वारा घंटावार या उप-घंटावार मांग के आकलन तथा पूर्वानुमान को सम्मिलित किया जाएगा।
- 6.3 मांग के पूर्वानुमान हेतु वितरण अनुज्ञप्तिधारी अमीटरीकृत (unmetered) उपभोक्ताओं की विशिष्ट श्रेणी, जैसे कि कृषि, घरेलू आदि हेतु श्रेणीवार खपत आंकड़े तथा आकलित खपत आंकड़े एमपी पावर मैनेजमेंट कम्पनी लिमिटेड को प्रदान करने हेतु उत्तरदायी होगा। वितरण अनुज्ञप्तिधारी पूर्व वित्तीय वर्षों हेतु श्रेणीवार खपत संबंधी जानकारी तथा अन्य कोई जानकारी जैसा कि एमपी पावर मैनेजमेंट कम्पनी लिमिटेड द्वारा चाही जाए, प्रत्येक वर्ष की 21 अप्रैल तक प्रस्तुत करेगा।
- 6.4 राज्य भार प्रेषण केन्द्र (SLDC) एमपी पावर मैनेजमेंट कम्पनी को पूर्व वित्तीय वर्ष के विचलन व्यवस्थापन क्रियाविधि (Deviation Settlement Mechanism-DSM) लेखे प्रति वर्ष अन्तिम रूप से 21 अप्रैल तक प्रदान करने हेतु उत्तरदायी होगा।
- 6.5 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड मांग (MW) तथा ऊर्जा (MU) के आकलन तथा पूर्वानुमान हेतु उत्तरदायी होगी।
- 6.6 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड प्रत्येक उपभोक्ता श्रेणी हेतु ऊर्जा का पूर्वानुमान तैयार करेगी जैसा कि आयोग द्वारा समय-समय पर जारी उसके खुदरा विद्युत आपूर्ति टैरिफ आदेश (Retail Supply Tariff order) में निर्दिष्ट किया जाए।
- 6.7 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड किसी उपभोक्ता श्रेणी हेतु ऊर्जा के पूर्वानुमान का अवधारण निम्नांकित में से किसी भी एक क्रियाविधि एवं /अथवा इनके संयोजन को अपनाकर करेगी :
  - क) रुझान विश्लेषण (Trend Analysis), अर्थात्, वर्ष-दर-वर्ष/पूर्व अवधि हेतु संयोजित वार्षिक विकास दर (CAGR) एवं समय श्रेणी विश्लेषण (Time Series Analysis) ;
  - ख) अन्तिम उपयोग (End-use) अथवा आंशिक अन्तिम उपयोग (Partial End-use) पद्धति ;
  - ग) स्वसमाश्रयी समेकित गतिमान औसत (Auto-Regressive Integrated Moving Average-ARIMA)
  - घ) कृत्रिम बुद्धिमत्ता (AI), मशीन लर्निंग (Machine Learning), कृत्रिम तन्त्रिका नेटवर्क तकनीकें (ANN Techniques) को सम्मिलित करते हुए

ड) अर्थमिति मॉडलिंग (Econometric Modelling) (उपयोग किये गये मानदण्डों, अलगोरिदम (algorithm), तथा आंकड़ों के स्रोत को निर्दिष्ट करते हुए)।

- 6.8 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड द्वारा मांग पूर्वानुमान की गणना हेतु विद्युत ऊर्जा सर्वेक्षण (EPS)के प्रक्षेपणों (Projections)का उपयोग आधार के रूप में और/या फिर उपरोक्त उल्लेखित विधियों को छोड़कर अन्य किसी विधि द्वारा, अपनाई गई विधि का विस्तारपूर्वक औचित्य दर्शाते हुए, किया जा सकता है। इन विनियमों के विनियम 6.17 के अन्तर्गत विनिर्दिष्ट विभिन्न परिदृश्यों जैसे कि {सर्वाधिक संभावित, सामान्य व्यवसाय (business as usual), और आक्रामक (aggressive)}पर विचार करते हुए एमपी पावर मैनेजमेंट कम्पनी लिमिटेड द्वारा मांग पूर्वानुमान के प्रयोजन हेतु विभिन्न क्रियाविधियों में से सर्वोत्तम उपयुक्त विधि का प्रयोग किया जाएगा।
- 6.9 किसी उपभोक्ता श्रेणी हेतु ऊर्जा के पूर्वानुमान के प्रयोजन हेतु प्रयोग की जाने वाली क्रियाविधि के संबंध में एमपी पावर मैनेजमेंट कम्पनी लिमिटेड द्वारा सांख्यिकी विश्लेषण (Statistical Analysis) निष्पादित किया जाएगा तथा ऐसी विधि का चयन किया जाएगा जिसके लिये मानक विचलन (standard variation)न्यूनतम है तथा आर-वर्ग (R-Square)उच्चतम है।
- 6.10 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड द्वारा अत्याधुनिक औजारों (State-of-the-art-tools), वैज्ञानिक तथा गणितीय क्रियाविधियों (Scientific and mathematical techniques) तथा व्यापक आंकड़ा आधार (Comprehensive data base) का उपयोग किया जाएगा जो निम्न मात्र तक ही सीमित न होंगे, जैसे कि मौसम संबंधी आंकड़े, ऐतिहासिक आंकड़े, जनसांख्यिकी (demographic)तथा अर्थमिति (econometric) आंकड़े, खपत परिदृश्य (consumption profiles), नीतियों तथा चालकों (drivers) का प्रभाव आदि, जैसा कि वह तत्संबंधी वितरण अनुज्ञप्तिधारी क्षेत्र को लागू होता हो।
- 6.11 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड प्रत्येक उपभोक्ता श्रेणी हेतु प्राप्त किये गये ऊर्जा पूर्वानुमान को सुसंबद्ध गतिविधियों पर विचार करते हुए रूपान्तरित (modify) कर सकेगी। इसके प्रभाव पर विचार आर्थिक मानदण्डों, नीतियों, ऐतिहासिक आंकड़ों तथा भविष्य हेतु प्रक्षेपणों के आधार पर प्रत्येक के लिये प्रक्षेप-वक्रों (trajectories) को विकसित करते हुए किया जाएगा जो मात्र निम्न गतिविधियों तक ही सीमित न होगा :-

- क) मांग-परक प्रबन्धन (Demand-Side Management) ;
- ख) निर्बाध (खुली) पहुंच (Open Access);
- ग) वितरित ऊर्जा संसाधन (Distributed Energy Resources);
- घ) विचलन व्यवस्थापन क्रियाविधि (Deviation Settlement Mechanism) एवं मांग अनुक्रिया उपाय (Demand Response Measures) ;
- ड) इलेक्ट्रिक वाहन तथा ई-वाहन/ई-रिक्शा प्रभारण केन्द्र (चार्जिंग स्टेशन) ;



- च) विद्युत-दर संकेत (Tariff Signals), समयानुपाती विद्युत-दर (Time of the Day (ToD) Tariff) को सम्मिलित करते हुए ;
- छ) विशिष्ट ऊर्जा खपत में परिवर्तन (Changes in Specific Energy Consumption) ;
- ज) विद्युतीकरण के साथ वाणिज्यिक गतिविधियों में वृद्धि ;
- झ) कृषि भारों के लिये मौसमवार परिवर्तन, तापमान, क्षेत्रवार वर्षा प्रतिमान (पैटर्न), कृषि क्षेत्रों (Pockets) में जल स्तर का प्रभाव, सिंचाई सुविधाएं, क्षेत्रवार फसल का प्रकार, फसलों की संख्या, कृषि पम्प सेटों की संख्या में वृद्धि तथा इनका सौरीकरण (Solarizaion) ;
- ञ) मौसमी उपभोक्ताओं के खपत प्रतिमान (पैटर्न) में परिवर्तन, रबी/खरीफ मौसम तथा अन्य फसलों हेतु मौसमी परिवर्तन (Seasonal Variation) को सम्मिलित करते हुए ;
- ट) महत्वपूर्ण त्योहारों, कार्यकारी दिवस अथवा गैर-कार्यकारी दिवस, व्यस्ततम (Peak) तथा अ-व्यस्ततम (off-peak) घंटों के भार प्रतिमान (load pattern) का प्रभाव ; और
- ठ) नीतिगत प्रभाव (Policy influences) जैसे कि समस्त उपभोक्ताओं को चौबीसों घंटे (24x7) विद्युत आपूर्ति, एलईडी का प्रभाव (LED Penetration), कृषि पम्पों, पंखों/वातानुकूल (AC) संयन्त्रों/उपकरणों का दक्ष उपयोग, भोजन तैयार करने (cooking)/तापन (heating)/शीतलन (cooling) अनुप्रयोगों में उपकरणों (appliances) के उपयोग में वृद्धि, विद्युतीकरण नीतियां, वितरणात्मक ऊर्जा संसाधन (distributive energy resources), संग्रहण (storage), नीतियां जो अर्थमिति मानदण्डों (econometric parameters) को प्रभावित कर सकती हैं, राष्ट्रीय हाइड्रोजन मिशन का प्रभाव, आदि। प्रत्येक नीति को लेकर प्रत्येक उपभोक्ता श्रेणी हेतु एक पृथक प्रक्षेप-वक्र (trajectory) विकसित किया जाएगा।
- 6.12 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड अन्य किसी कारक पर भी, जिसका इन विनियमों के विनियम 6.11 में उल्लेख न किया गया हो, विचार हेतु विस्तृत औचित्य प्रदान करने के पश्चात्, विचार कर सकती है।
- 6.13 उपभोक्ता श्रेणियों के दीर्घ तथा मध्यम-अवधि भार परिदृश्य जिनके लिए भार अनुसंधान संचालित किया गया हो, को भार अनुसंधान विश्लेषण के आधार पर परिष्कृत (refine) किया जा सकता है। संचालित किये गये परिष्करण (refinement) के बारे में विस्तृत स्पष्टीकरण प्रदान किया जाना चाहिए।
- 6.14 विभिन्न उपभोक्ता श्रेणियों हेतु ऊर्जा पूर्वानुमान (energy forecast) (MUs) का जोड़ यथास्थिति, विनियम 6.7 से 6.13 के अनुसार आबद्ध (केप्टिव), उत्पादोभोक्ता (prosumer) तथा निर्बाध (खुली) पहुंच ऊर्जा पूर्वानुमान के समायोजन पश्चात्, उपभोक्ता स्तर पर वितरण अनुज्ञप्तिधारी हेतु ऊर्जा पूर्वानुमान (energy forecast) की मात्रा होगी।

- 6.15 एमपी पावर मैनेजमेंट कम्पनी द्वारा वितरण अनुज्ञप्तिधारियों द्वारा प्रस्तावित यथार्थवादी हानि प्रक्षेप वक्र (loss trajectory) के अनुसार वितरण हानियों तथा राज्यान्तरिक/अन्तर्राज्यीय पारेषण हानियों पर विचार करते हुए ऊर्जा पूर्वानुमानों (MUs) की गणना की जाएगी:

परन्तु यह कि अनुवर्ती वर्षों हेतु सम्पूर्ण राजस्व आवश्यकता (ARR) को प्राक्कलित करने तथा पूर्व वर्षों के सत्यापन को अनुमोदित करने के प्रयोजन से वितरण/समग्र तकनीकी तथा वाणिज्यिक हानियों (AT & C) का प्रक्षेपवक्र जैसा कि आयोग द्वारा समय-समय पर निर्दिष्ट किया जाए, पर विचार किया जाएगा।

- 6.16 व्यस्ततम मांग (Peak Demand)(MW)का अवधारण औसत भार कारक (average load factor), भार विविधता कारक (load diversity factor)पूर्व के तीन वर्षों के मौसमी परिवर्तन कारकों (seasonal variation factors) तथा इन विनियमों के विनियम 6.15 के अनुसार प्राप्त किये गये ऊर्जा पूर्वानुमानों (energy forecast) (MUs)पर विचार करते हुए किया जाएगा। यदि भविष्यगामी वर्षों हेतु समुचित भार कारक पर विचार किया जाता है तो एमपी पावर मैनेजमेंट कम्पनी द्वारा इस पर विचार किये जाने बाबत विस्तृत औचित्य प्रस्तुत किया जाएगा।

- 6.17 एमपी पावर मैनेजमेंट कम्पनी सर्वाधिक संभावित मांग पूर्वानुमान के अवधारण हेतु संवेदनशीलता (Sensitivity) तथा संभाव्यता विश्लेषण (probability analysis) निष्पादित करेगी। उसके द्वारा संभावित परिदृश्यों हेतु दीर्घ-अवधि तथा मध्यम-अवधि मांग पूर्वानुमान न्यूनतम तीन परिदृश्य (सर्वाधिक संभावित, सामान्य व्यवसाय तथा आक्रामक) को सुनिश्चित करते हुए विकसित किये जाएंगे।

## 7. लघु-अवधि मांग पूर्वानुमान तथा मांग पुर्वानुमान का समुच्चय (Short-Term Demand Forecast and Aggregation of Demand Forecast)

### क. लघु-अवधि मांग पूर्वानुमान (Short-Term Demand Forecast)

- 7.1 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड द्वारा घंटेवार या उप-घंटेवार मांग पूर्वानुमान हेतु क्रियाविधि विकसित की जाएगी तथा उसके द्वारा ऐतिहासिक आंकड़ा आधार (historical data base) संधारित किया जाएगा।
- 7.2 घंटेवार भार परिदृश्य को सुनिश्चित करने के प्रयोजन से तथा व्यस्ततम मांग के प्रति विभिन्न उपभोक्ता श्रेणियों के योगदान के आकलन हेतु भार अनुसंधान विश्लेषण (load research analysis) का संचालन किया जाएगा और एमपी पावर मैनेजमेंट कम्पनी द्वारा राज्य भार प्रेषण केन्द्र (SLDC) से प्राप्त की गई निविष्टियों (inputs) के साथ मांग प्रतिक्रिया के प्रभाव, भार स्थानान्तरण के उपायों, उपयोग के समय को अपवर्तित (factored) किया जाएगा। अपनाई गई विस्तृत क्रियाविधि के बारे में विस्तृत स्पष्टीकरण दिया जाएगा।
- 7.3 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड द्वारा अत्याधुनिक औजारों (State-of-the-art tools), वैज्ञानिक तथा गणितीय क्रियाविधियों (scientific and

mathematical techniques) तथा व्यापक आंकड़ा आधार (Comprehensive data base)का उपयोग किया जाएगा जो निम्न मात्र तक ही सीमित न होंगे, जैसे कि मौसम संबंधी आंकड़े, ऐतिहासिक आंकड़े, जनसांख्यिकी (demographic) तथा अर्थमिति (econometric) आंकड़े, खपत परिदृश्य (Consumption profiles), नीतियों का प्रभाव तथा चालक (driver) आदि, जैसा कि वह वितरण अनुज्ञप्तिधारी क्षेत्र को लागू होता है।

#### ख. मांग पूर्वानुमान का समुच्चय (Aggregation of Demand Forecast)

- 7.4 एमपी पावर मैनेजमेंट कम्पनी लिमिटेड क्रमिक आधार (rolling basis) पर, घंटेवार अथवा उप-घंटेवार, एक-वर्षीय लघु-अवधि (ST), पांच-वर्षीय मध्यम-अवधि (MT) तथा 10-वर्षीय दीर्घ-अवधि (LT) मांग पूर्वानुमान पर तैयार करेगी।
- 7.5 एमपी पावर मैनेजमेंट कम्पनी राज्य भार प्रेषण केन्द्र (SLDC) से प्राप्त की गई निविष्टियों (inputs) तथा राज्य के वितरण अनुज्ञप्तिधारियों के मांग प्राक्कलनों (demand estimates) के आधार पर विभिन्न समय-अवधियों, अर्थात् दीर्घ-अवधि, मध्यम-अवधि तथा लघु-अवधि में सम्पूर्ण राज्य हेतु मांग, राज्य की भार विविधता (load diversity) पर यथोचित विचार करते हुए, प्राक्कलित करेगी।
- 7.6 एमपी पावर मैनेजमेंट कम्पनी भार की विविधता (load diversity), उपयुक्तता (congruency), मौसमी परिवर्तनीय पहलुओं (Seasonal Variation Aspects) पर विचार करते हुए मांग पूर्वानुमानों को समेकित करेगी तथा प्रति वर्ष आगामी वर्ष(ों) हेतु राज्य-स्तरीय समेकित (aggregate) मांग पूर्वानुमान दीर्घ-अवधि तथा मध्यम अवधि {(MW) तथा (MU)} हेतु, केन्द्रीय विद्युत प्राधिकरण (CEA) को 31 मई तक तथा लघु-अवधि हेतु राज्य भार प्रेषण केन्द्र (SLDC) को 21 मई तक प्रस्तुत करेगी।
- 7.7 राज्यभार प्रेषण केन्द्र (SLDC) आगामी वर्ष(ों) के लिये लघु-अवधि {(MW) तथा (MU)} हेतु राज्य-स्तरीय सम्पूर्ण मांग पूर्वानुमान क्षेत्रीय भार प्रेषण केन्द्र (RLDC) तथा राष्ट्रीय भार प्रेषण केन्द्र (NLDC) को प्रति वर्ष 31 मई तक प्रस्तुत करेगा।

### अध्याय 4

#### विद्युत उत्पादन संसाधन योजना (Generation Resource Planning)

#### 8. विद्युत उत्पादन संसाधन योजना तैयार करना (Preparation of Generation Resource Planning)

- 8.1 एमपी पावर मैनेजमेंट कम्पनी वांछित उत्पादन संसाधनों का नियोजन तथा आकलन उनके विद्यमान (existing) संसाधनों, भविष्यगामी (upcoming) संसाधनों (जिन्हें अभी तक क्रियाशील नहीं किया गया है), क्षमता क्रेडिट (Capacity Credit) तथा धनात्मक क्षमता आवश्यकता (incremental capacity requirement) पर विचार करते हुए पूर्वानुमानित मांग (forecasted demand) की पूर्ति हेतु नियोजन संचिति परिसीमा (Planning Reserve Margin-PRM) को सम्मिलित करते हुए करेगी।

- 8.2 विद्युत उत्पादन संसाधन नियोजन में निम्न चरण सन्निहित होंगे, अर्थात् :
- क) विद्युत उत्पादन संसाधनों की क्षमता क्रेडिटिंग (Capacity Crediting) करना ;
  - ख) नियोजन संचिति परिसीमा (PRM) का आकलन करना;और
  - ग) संसाधन पर्याप्ता की आवश्यकता सुनिश्चित करना तथा वितरण अनुज्ञप्तिधारी को आबंटित करना।
- 8.3 विद्युत उत्पादन योजना में निम्न आंकड़ों को सम्मिलित किया जाएगा जो मात्र निम्न पहलुओं तक ही सीमित न होंगे :-
- क) नियोजन संचिति परिसीमा (Planning Reserve Margin-PRM) ;
  - ख) राज्य/वितरण अनुज्ञप्तिधारी द्वारा वास्तविक मांग की पूर्ति विगत पांच वर्षों हेतु घंटेवार समय-खण्ड वियोजनों (resolutions) के अनुसार ;
  - ग) नियोजन काल के दौरान अनुमानित भार वृद्धि (load growth) ;
  - घ) निर्णायक अभिलक्षण(critical Characterstices), मशीन अभिलक्षण (Machine characteristics), जल-विद्युत मशीनों हेतु जल विज्ञान (Hydrology for hydromachines) और ताप तथा जल विद्युत उत्पादन संयन्त्रों के तकनीकी मानदण्ड, जैसे कि :
    - i. संयन्त्र का नाम, अवस्थिति (राज्य/क्षेत्र) ;
    - ii. क्षमता (MW) (विद्यमान तथा नियोजित क्षमताओं के लिये);
    - iii. ताप विद्युत उत्पादन केन्द्रों हेतु ऊष्मा-दर (Heat Rate) ;
    - iv सहायक खपत (Auxiliary Consumption) (MW) ;
    - v. उच्चतम तथा न्यूनतम विद्युत उत्पादन सीमाएं (MW) ;
    - vi. चढ़ावदर (Ramp up) तथा उतारदर (Ramp Down) (मेगावाट प्रति मिनट) ;
    - vii. प्रारंभिक समय (Start-up time) ;
    - viii. संयन्त्र उपलब्धता कारक (Plant Availability Factor) (समय का %)आदि ; और
    - ix. नवीकरणीय संसाधन आधारित विद्युत संयन्त्रों हेतु क्षमता उपयोगिता कारक (Capacity utilization Factor-CUF)।
  - ङ) संसाधन योजना (Resource Plan) में समस्त अभिलक्षणों (characterstics) तथा मानदण्डों (parameters) को मय उनके मूल्यों (values) के सुविचारित प्रत्येक विद्युत उत्पादन संयन्त्र हेतु प्रदान किया जाएगा ;

- च) निर्माणाधीन क्षमता (under-construction capacity) / विद्युत उत्पादन क्षमता की सेवा से निवृत्ति (retirement) / अनुबन्धित क्षमता (contracted capacity) / द्विपक्षीय अनुबन्ध (bilateral contracts) ;
- छ) संभावित प्रौद्योगिकियां (Potential Technologies), संगर्भता अवधियां (Gestation Periods) तथा विभिन्न परिसम्पत्तियों का जीवन-काल ;
- ज) नवीकरणीय विद्युत उत्पादन की क्षमताएं एवं विद्युत उत्पादन का परिदृश्य (profile) ;
- झ) ऐतिहासिक अनिवार्य अवरोध की दर (forced outage rates) तथा विद्युत उत्पादन क्षमताओं की नियोजित संधारण की दर (Planned Maintenance rates) ;
- ञ) नवीकरणीय विद्युत क्रय आबन्ध (Renewable Purchase Obligation-RPO), ऊर्जा संग्रहण आबन्ध (Energy Storage Obligation) सहित लक्ष्य, आदि ; और
- ट) सीमाबद्धताएं जैसे कि अपूरित मांग (unmet demand), अनिवार्य अवरोध (forced outages) तथा प्रणाली उत्सर्जन सीमाएं हेतु अर्थदण्ड (Penalties) , जैसा कि इन्हें राज्य विद्युत ग्रिड संहिता तथा भारतीय विद्युत ग्रिड संहिता में परिभाषित किया गया है और पर्यावरण, वन तथा जलवायु परिवर्तन मंत्रालय द्वारा निर्दिष्ट किये गये उत्सर्जन मानदण्डों (emission norms) को चिन्हांकित तथा सूचीबद्ध किया जाएगा।

8.4 एमपी पावर मैनेजमेंट कम्पनी दीर्घ-अवधि तथा मध्यम-अवधि विद्युत अधिप्राप्ति योजना हेतु विद्यमान संसाधन मानचित्र (MW) विकसित किये जाने हेतु अपने समस्त विद्यमान संसाधनों, भविष्यगामी संसाधनों तथा सेवा से निवृत्ति पाने वाले संसाधनों का मानचित्रण करेगी।

## 9. विद्युत उत्पादन संसाधनों की क्षमता क्रेडिटिंग (Capacity Crediting of Generating Resources)

9.1 एमपी पावर मैनेजमेंट कम्पनी इन विनियमों के विनियम 9.2 के अन्तर्गत रेखांकित किये गये अनुसार शुद्ध भार-आधारित दृष्टिकोण (net load-based approach) के अनुप्रयोग द्वारा उनके अनुबन्धित विद्युत उत्पादन संसाधनों हेतु क्षमता क्रेडिट (Capacity Credit-CC) की गणना करेगी। विद्युत उत्पादन संसाधन नियोजन के प्रयोजन हेतु, क्रमिक आधार पर पूर्व पांच वर्षों हेतु अनुबन्धित प्रत्येक प्रकार के विद्युत उत्पादन स्रोत के क्षमता क्रेडिट (Capacity Credit-CC) के औसत को क्षमता क्रेडिट कारक (Capacity Credit Factor) माना जाएगा।

9.2 विद्युत उत्पादन स्रोतों के लिये क्षमता क्रेडिट कारकों (Capacity Credit Factor) के अवधारण हेतु शुद्ध भार आधारित दृष्टिकोण/क्रियाविधि को निम्नानुसार अपनाया जाएगा :

- क) प्रत्येक वर्ष हेतु, घंटावार अभिलेखित सकल भार (MW में) को 8760 घंटों में (लीप वर्ष हेतु 8784 घंटों में) (या उप-घंटावार समय-खण्डों में) घटते-क्रम (decending order) में व्यवस्थित किया जाएगा।
- ख) प्रत्येक घंटे हेतु, शुद्ध भार (net load) (MW में) की गणना, 8760 घंटों में (लीप वर्ष हेतु 8784 घंटों में) (या उप-घंटावार समय-खण्डों में) हेतु उक्त भार से सुसंबद्ध वास्तविक पवन या सौर उत्पादन (MW में) को घटाकर की जाएगी तथा इसे घटते क्रम (descending order) में व्यवस्थित किया जाएगा।
- ग) इन विनियमों के विनियम 9.2 (क) तथा (ख) के अन्तर्गत उल्लेखित इन दो भार अवधि वक्रों (load duration curves) के मध्य का अन्तर यथास्थिति, पवन-ऊर्जा उत्पादन (wind generation) या सौर ऊर्जा उत्पादन (Solar generation) के क्षमता कारक (capacity factor) के योगदान को निरूपित करता है।
- घ) पवन या सौर ऊर्जा उत्पादन की स्थापित क्षमता (MW) को इन विनियमों के विनियम 9.2 (ग) में गणना किये गये अनुसार शीर्ष 250 भार घण्टों (या उप-घंटावार समय-खण्ड) से सुसंबद्ध जोड़ा जाएगा। 250 शीर्ष भार घण्टों (या उप-घंटावार समय-खण्ड) का चयन शुद्ध भार घण्टों के व्यवस्थित घटते क्रम के अनुसार किया जाएगा।
- ङ) इन 250 भार घण्टों से सुसंबद्ध पवन ऊर्जा या सौर ऊर्जा उत्पादन को (मिलियन यूनिटों में) जोड़ा जाएगा।
- च) परिणामी क्षमता क्रेडिट कारक (Resultant-CC Factor) (250 शीर्ष भार घण्टों हेतु कुल विद्युत उत्पादन)/(250 शीर्ष भार घण्टों हेतु स्थापित नवीकरणीय ऊर्जा क्षमता) होगा, जैसा कि इसे निम्न सूत्र में दर्शाया गया है :

$$\text{क्षमता क्रेडिट (CC)कारक} = \frac{250 \text{ शीर्ष भार घण्टों हेतु नवीकरणीय ऊर्जा उत्पादन का योग (मिलियन यूनिट)}}{\{250 \text{ शीर्ष भार घण्टों हेतु, नवीकरणीय ऊर्जा उत्पादन क्षमता का योग(MW)/ 1000\} (MU)}$$

- छ) क्षमता क्रेडिट कारक (CC Factor) के अवधारण हेतु प्रक्रिया प्रति वर्ष पिछले पांच वर्षों की अवधि हेतु निष्पादित की जाएगी तथा परिणामी क्षमता क्रेडिट (CC) पिछले 5 वर्षों के क्षमता क्रेडिट का औसत होगा :

परन्तु यह कि क्रेडिट क्षमता कारक (CC Factor) का अवधारण करते समय, पूर्व पांच वर्षों की अवधि के दौरान मूल्यों पर विचार करते समय, एमपी पावर मैनेजमेंट कम्पनी द्वारा किसी वर्ष के दौरान असामान्य मूल्यों (abnormal values) को निम्नलिखित घटनाओं या परिस्थितियों के लिये सम्मिलित नहीं किया जाएगा जो मात्र निम्न तक ही सीमित न होंगी :

- (क) कोई दैवीय घटना (Act of God) जिनमें, तड़ित (lightning), सूखा(drought), अग्निकाण्ड (fire) तथा विस्फोट (explosion), भूकम्प (earthquake), ज्वालामुखी विस्फोट (volcanic eruption), भू-स्खलन (landslide), बाढ़(flood), चक्रवात(cyclone), तूफान(typhoon), बवंडर(tornado), भूवैज्ञानिकआश्चर्य(geological surprises), प्राकृतिक आपदा (natural disaster) या आपवादिक रूप से प्रतिकूल मौसमी परिस्थितियां (exceptionally adverse weather conditions), जो पिछले सौ वर्षों के सांख्यिकी परिमाणों की तुलना में कहीं अत्यधिक हैं, सम्मिलित है, किन्तु मात्र इस तक सीमित नहीं है, या
- (ख) केन्द्र सरकार द्वारा समय-समय पर यथासंशोधित आपदा प्रबन्धन अधिनियम के अन्तर्गत जिन्हें आपदा (disaster) घोषित किया गया हो; या
- (ग) युद्ध (war), आक्रमण (invasion), सशस्त्र द्वंद्व (armed conflict) या किसी विदेशी शत्रु का कृत्य (act of a foreign enemy), नाकाबन्दी (blockade), घाटबन्दी (embargo), क्रांति (revolution), दंगा (riot), विद्रोह (insurrection), आतंकवादी या सैनिक कार्यवाही (terrorist or Military action) का कोई कृत्य।
- 9.3 एमपी पावर मैनेजमेंट कम्पनी द्वारा विद्युत वितरण कम्पनी की ओर से अनुबंधित नवीकरणीय ऊर्जा उत्पादन संसाधन के क्षमता क्रेडिट कारक (CC Factors), जैसा कि इन्हें प्राधिकरण द्वारा निर्दिष्ट किया जाए तथा जैसा कि इन्हें आयोग द्वारा अनुमोदित किया जाए, माना जाएगा।
- 9.4 जल-विद्युत उत्पादन संसाधनों हेतु क्षमता क्रेडिट कारकों (CC Factors)की गणना नदी बहाव जल विद्युत परियोजनाओं तथा बांध-आधारित/संग्रहण-आधारित जल विद्युत परियोजनाओं हेतु जल की उपलब्धता पर निर्भर, मय भिन्न-भिन्न क्षमता क्रेडिट कारकों के आधार पर की जाएगी।
- 9.5 ताप विद्युत संसाधनों हेतु क्षमता क्रेडिट कारक की गणना कोयले की उपलब्धता तथा नियोजित/अनिवार्य अवरोध (forced outage) के आधार पर की जाएगी।
- 9.6 एमपी पावर मैनेजमेंट कम्पनी द्वारा राज्य विशिष्ट क्षमता क्रेडिट कारकों की गणना सम्पूर्ण राज्य मांग राज्य शुद्ध भार (State Net Load) तथा राज्य में उपलब्ध अनुबंधित नवीकरणीय ऊर्जा उत्पादन के आधार पर की जाएगी तथा क्षमता क्रेडिट कारक संबंधी इस जानकारी को आगामी वर्ष(ों) के लिये प्रति वर्ष राज्य भार प्रेषण केन्द्र (SLDC) को 21 मई तक सूचित किया जाएगा।
- 9.7 राज्य भार प्रेषण केन्द्र द्वारा एमपी पावर मैनेजमेंट कम्पनी से प्राप्त की गई ऐसी क्षमता क्रेडिट कारक (CC Factor)संबंधी जानकारी केन्द्रीय विद्युत प्राधिकरण (CEA), क्षेत्रीय भार प्रेषण केन्द्र (RLDC), राष्ट्रीय भार प्रेषण केन्द्र

(NLDC) को आगामी वर्ष(ों) के लिये प्रति वर्ष 31 मई तक प्रस्तुत की जाएगी।

#### 10. नियोजन संचितिपरिसीमा का आकलन {Assessment of Planning Reserve Margin-PRM}}

- 10.1 नियोजन संचिति परिसीमा (PRM) राष्ट्रीय व्यस्ततम मांग में राज्य के सम्पाती अंश (Coincident Share) के अतिरिक्त क्षमता का प्रतिशत है जिस पर विद्युत उत्पादन संसाधन नियोजन के प्रयोजन हेतु विचार किया जाना अपेक्षित होता है।
- 10.2 इस प्रकार की नियोजन संचिति परिसीमा (PRM) भार संभाव्यता की हानि (Loss of Load Probability-LOLP) तथा अ-सेवाकृत सामान्यीकृत ऊर्जा (Normalized Energy Not Served) (NENS) के रूप में विश्वसनीयता सूचकांकों (reliability indices) पर आधारित होती है जैसा कि प्राधिकरण द्वारा इसे निर्दिष्ट किया जाए।
- 10.3 एमपी पावर मैनेजमेंट कम्पनी द्वारा संसाधन पर्याप्तता आवश्यकता (Resource Adequacy Requirement) तथा विद्युत उत्पादन संसाधन क्षमता नियोजन (Generation Resource Capacity Planning) हेतु अपना नियोजन करते समय इन विनियमों के विनियम 10.1 तथा 10.2 के अधीन अवधारित नियोजन संचिति परिसीमा (PRM) पर विचार किया जाएगा।
- 10.4 एमपी पावर मैनेजमेंट कम्पनी आयोग के पूर्व अनुमोदन के अध्वधीन अधिक नियोजन संचिति परिसीमा पर विचार कर सकेंगी।
- 10.5 एमपी पावर मैनेजमेंट कम्पनी (MPPMCL) द्वारा राज्य स्तरीय एकीकृत संसाधन योजना (State Level Integrated Resource Plan) को विकसित करते समय राज्य स्तरीय संसाधन पर्याप्तता नियोजन (State Level Resource adequacy Planning) में संचिति परिसीमा कारक का उपयोग कर सकेंगे।

#### 11. संसाधन पर्याप्तता आवश्यकता तथा इसका आवंटन(Resource Adequacy Requirement and its Allocation)

- 11.1 एमपी पावर मैनेजमेंट कम्पनी मांग की पूर्ति तथा नियोजन संचिति परिसीमा (PRM) हेतु क्षमता की आवश्यकता का अवधारण उपलब्ध क्षमता पर विचार करते हुए करेगी जिसे विद्यमान तथा नियोजित अनुबन्धित उत्पादन संसाधनों हेतु क्षमता क्रेडिटिंग के लिये समायोजित किया जाएगा।
- 11.2 तत्पश्चात्, विनियम 11.1 में निर्दिष्ट किये गये अनुसार अवधारित की गई उपलब्ध क्षमता को 15-मिनट के अन्तरालों(intervals) पर या इससे अधिक की समयावधि, जो एक घंटे से अधिक न होगी, के लिये समय-अक्ष (time-axis) पर अंकित किया जाएगा। इस प्रकार वितरण अनुज्ञप्तिधारियों के संसाधन मानचित्र (resource map) की संरचना की जाएगी।
- 11.3 एमपी पावर मैनेजमेंट कम्पनी द्वारा विनियम 11.2 के अनुसार विकसित संसाधन मानचित्र को इन विनियमों के विनियम 6 के अनुसार विकसित



मांग पूर्वानुमान में से घटा दिया जाएगा जिसके फलस्वरूप संसाधन अन्तर (resource gap) को चिन्हांकित किया जाएगा।

- 11.4 एमपी पावर मैनेजमेंट कम्पनी द्वारा सर्वाधिक संभावित संसाधन अन्तर (most probable resource gap) के अवधारण हेतु संवेदनशीलता (sensitivity) तथा संभाविता विश्लेषण (probability analysis) को निष्पादित किया जाएगा। इनके द्वारा संभावित मांग पूर्वानुमान परिदृश्यों (demand forecasting scenarios) हेतु, केन्द्रीय विद्युत प्राधिकरण द्वारा समय-समय पर निर्दिष्ट किये गये दिशा-निर्देशों, यथा 'Guidelines for Medium and Long-Term Power Demand Forecast' के अनुसार, न्यूनतम तीन पृथक-पृथक परिदृश्यों (सर्वाधिक संभावित, सामान्य व्यवसाय तथा निराशावादी) के अनुसार सुनिश्चित करते हुए, दीर्घ-अवधि, मध्यम-अवधि तथा लघु-अवधि संसाधन अन्तर योजनाएं भी विकसित की जाएंगी।
- 11.5 सर्वाधिक संभावित परिदृश्य के आधार पर एमपी पावर मैनेजमेंट कम्पनी द्वारा संसाधन पर्याप्तता आवश्यकता की पूर्ति हेतु प्रति वर्ष दीर्घ-अवधि, मध्यम-अवधि तथा लघु-अवधि वितरण संसाधन पर्याप्तता योजना विकसित करने का उत्तरदायित्व वहन किया जाएगा।
- 11.6 दीर्घ-अवधि राष्ट्रीय संसाधन पर्याप्तता योजना (LT-NRAP) जैसा कि इसे केन्द्रीय विद्युत प्राधिकरण द्वारा विश्वसनीय आपूर्ति लक्ष्यों (reliable supply targets) की प्राप्ति सुनिश्चित करने हेतु, राष्ट्रीयस्तर पर इष्टतम (optimal) नियोजन संचिति परिसीमा (PRM) आवश्यकता के अवधारण हेतु तथा लघु-अवधि राष्ट्रीय संसाधन पर्याप्तता योजना (ST-NRAP) जैसा कि इसे राष्ट्रीय भार प्रेषण केन्द्र (NLDC) द्वारा एकल-वर्ष अग्रवलोकन (one-year look ahead) हेतु प्रकाशित किया जाएगा, एमपी पावर मैनेजमेंट कम्पनी के लिए संसाधन पर्याप्तता अभ्यास के दायित्व के निर्वहन हेतु मार्गदर्शक के रूप में कार्य करेगी।
- 11.7 राज्य हेतु उपरोक्त 'ST-NRAP' में प्रदत्त राष्ट्रीय व्यस्ततम अवधि (National Peak) में आवंटित अंशदान के आधार पर एमपी पावर मैनेजमेंट कम्पनी 'LT-NRAP' की प्रकाशन तिथि से 15 दिवस के भीतर राष्ट्रीय व्यस्ततम अवधि में प्रत्येक वितरण अनुज्ञप्तिधारी का अंशदान आवंटित करेगी।
- 11.8 एमपी पावर मैनेजमेंट कम्पनी, 'LT-NRAP' में प्रदत्त राष्ट्रीय व्यस्ततम अवधि (National Peak) में अंशदान के आधार पर 'LT-NRAP' द्वारा विनिर्दिष्ट राष्ट्रीय व्यस्ततम अवधि में राज्य की सम्पाती (coincident) मांग के अतिरिक्त क्षमताओं का अनुबन्ध किया जाना नियोजित करेगी या फिर राष्ट्रीय व्यस्ततम अवधि के समयउनकी संसाधन पर्याप्तता आवश्यकता (RAR) की पूर्ति हेतु उच्चतर मात्रा की अधिप्राप्ति करेगी।
- 11.9 एमपी पावर मैनेजमेंट कम्पनी द्वारा दीर्घ-अवधि संविदाओं (contracts) का अंशदान संसाधन पर्याप्तता आवश्यकता (RAR) के 75%-80% की सीमा के अन्तर्गत रखा जाएगा तथा मध्यम-अवधि संविदाओं (contracts) हेतु इसे 'RAR' की 10%-20% की सीमा के अन्तर्गत जबकि अवशेष संसाधन पर्याप्तता

आवश्यकता (RAR) मात्रा की पूर्ति लघु-अवधि संविदाओं के माध्यम से की जाएगी :

परन्तु यह कि दिवस-पूर्व विपणन (Day Ahead Market-DAM) के माध्यम से विद्युत की अधिप्राप्ति को संसाधन पर्याप्तता आवश्यकता (RAR) की पूर्ति हेतु अंशदान के प्रति विचार नहीं किया जाएगा।

- 11.10 इन विनियमों के विनियम 11.9 के अन्तर्गत उल्लेखित संविदा-मिश्रण (contract mix) की आयोग द्वारा समय-समय पर समीक्षा की जाएगी।
- 11.11 एमपी पावर मैनेजमेंट कम्पनी मध्यप्रदेश राज्य की व्यस्ततम मांग(peak demand) तथा ऊर्जा की आवश्यकता (energy demand) की पूर्ति हेतु दस-वर्षीय अवधि की दीर्घ-अवधि वितरण संसाधन पर्याप्तता योजना (LT-DRAP) तैयार करेगी।
- 11.12 एमपी पावर मैनेजमेंट कम्पनी उपरोक्त 'LT-DRAP' को प्रतिपादित करते समय इन विनियमों के अनुलग्नक-1 में उल्लेखित सीमाबद्धताओं पर भी विचार करेगी।
- 11.13 एमपी पावर मैनेजमेंट कम्पनी द्वारा 'LT-NRAP' से निविष्टियों (inputs) जैसे कि नियोजन संचिति परिसीमा(PRM), क्षमता क्रेडिटों (capacity credits), आदि की प्राप्ति उनके 'LT-DRAP' का प्रतिपादन करते समय की जाएगी तथा अपनी योजनाएं मान्यकरण हेतु केन्द्रीय विद्युत प्राधिकरण (CEA) को आगामी वर्ष(ों) हेतु प्रति वर्ष 30 सितम्बर तक प्रस्तुत की जाएगी।
- 11.14 एमपी पावर मैनेजमेंट कम्पनी वितरण अनुज्ञप्तिधारियोंकी ओर से केन्द्रीय विद्युत प्राधिकरण द्वारा विधिवत जांच की गई 'LT-DRAP' योजना मय आवश्यक सहायक अभिलेखों, प्ररूप (जिन्हें इन विनियमों के अनुलग्नक-दो के अन्तर्गत संलग्न किया गया है) तथा संसाधन पर्याप्तता आवश्यकता (RAR) की पूर्ति हेतु विवरण आयोग को केन्द्रीय विद्युत प्राधिकरण की अनुमोदन प्राप्ति की तिथि से 15 दिवस के भीतर प्रस्तुत करेगी।
- 11.15 एमपी पावर मैनेजमेंट कम्पनी, आयोग के समक्ष, राष्ट्रीय व्यस्ततम अवधि (National Peak) की पूर्ति के लिये उनके अंशदान की आवश्यकता की पूर्ति हेतु, प्रथम वर्ष हेतु शत प्रतिशत गठबन्धन (tie-up) तथा द्वितीय वर्ष हेतु न्यूनतम 90% गठबन्धन किया जाना प्रदर्शित करेगी। संसाधन पर्याप्तता आवश्यकता (RAR) के प्रति अंशदान की प्रस्तुति हेतु केवल दीर्घ/मध्यम/लघु अवधि संविदाओं से संबंधित संसाधनों पर ही विचार किया जाएगा।
- 11.16 अनुवर्ती तीन वर्षों के लिये, एमपी पावर मैनेजमेंट कम्पनी, राष्ट्रीय व्यस्ततम अवधि (national peak) की पूर्ति हेतु, उनके अंशदान की अनुमानित आवश्यकता की पूर्ति हेतु, एक योजना भी आयोग के अनुमोदनार्थ प्रस्तुत करेगी।
- 11.17 एमपी पावर मैनेजमेंट कम्पनी द्वारा 'LT-DRAP' का निष्पादन वार्षिक क्रमिक आधार पर (annual rolling basis), इस बात पर विचार करते हुए, कि

अनुबंधित क्षमता, प्रणाली का एक भाग है किया जाएगा, तथा अपेक्षित अतिरिक्त क्षमता हेतु इसे अनुकूलतम (Optimize) किया जाएगा।

- 11.18 एमपी पावर मैनेजमेंट कम्पनी 'LT-DRAP' के माध्यम से आयोग के समक्ष उनकी व्यस्ततम मांग (Peak Demand) तथा ऊर्जा की आवश्यकता की पूर्ति हेतु उनकी योजना, दीर्घ-अवधि, मध्य-अवधि तथा लघु-अवधि संविदाओं के मिश्र के साथ, पावर एक्सचेंजों को सम्मिलित करते हुए, प्रदर्शित करेगी:

परन्तु यह कि एमपी पावर मैनेजमेंट कम्पनी संविदाओं के अंशदान को इन विनियमों के विनियम 11.9 में उल्लेखित श्रेणी के अध्यक्षीन धारित करेगी।

- 11.19 वितरण अनुज्ञप्तिधारियों की संविदाओं के सम्पूर्ण मिश्र में दीर्घ-अवधि संविदाओं का अंशदान कम से कम राष्ट्रीय व्यस्ततम अवधि की संसाधन पर्याप्तता आवश्यकता (RAR) की पूर्ति हेतु अवधारित दीर्घ-अवधि संविदाओं की मात्रा तथा उनकी स्वयं की ऊर्जा तथा व्यस्ततम आवश्यकता की पूर्ति हेतु 'LT-DRAP' से प्राप्त की गई मात्रा के अधिकतम के बराबर होगा।
- 11.20 राज्य भार प्रेषण केन्द्र (SLDC) द्वारा एकल-वर्ष अग्रवलोकन (look ahead) ST-DRAP (लघु अवधि वितरण संसाधन पर्याप्तता योजना) वार्षिक आधार पर परिचालन नियोजन (Operational Planning) हेतु राज्य स्तर पर 'LT-DRAP' अध्ययन परिणामों के आधार पर तैयार की जाएगी। राज्य भार प्रेषण केन्द्र 'ST-DRAP' की समीक्षा दैनिक, मासिक तथा त्रैमासिक आधार पर विद्युत उत्पादन संसाधनों की वास्तविक उपलब्धता के आधार पर करेगा।

## अध्याय 5

### अधिप्राप्ति नियोजन (Procurement Planning)

12. अधिप्राप्ति नियोजन में निम्न पहलुओं को सम्मिलित किया जाएगा :

- (क) सर्वश्रेष्ठ विद्युत अधिप्राप्ति संसाधन मिश्र ;
- (ख) अधिप्राप्ति के प्रकार तथा अवधि की रूपात्मकताएं (modalities) और
- (ग) क्षमता का परस्पर बंटवारा।

13. अधिप्राप्ति संसाधन मिश्र (Procurement Resource Mix)

- 13.1 विद्युत अधिप्राप्ति रणनीति में एमपी पावर मैनेजमेंट कम्पनी द्वारा सर्वश्रेष्ठ अधिप्राप्ति उत्पादन संसाधन मिश्र का होना सुनिश्चित किया जाएगा तथा विश्वसनीयता मानकों तथा नवीकरणीय विद्युत क्रय आबन्ध लक्ष्यों की पूर्ति करते हुए विद्युत अधिप्राप्ति संसाधन विकल्पों के उसकी श्रेणी (पोर्टफोलियो) में नवीकरणीय ऊर्जा स्रोतों को सहज रूप से एकीकृत कर सुकर बनाया जाएगा। इसके अतिरिक्त, भविष्यगामी क्षमता मिश्र में विद्यमान क्षमताओं, नियोजित क्षमताओं तथा वितरण अनुज्ञप्तिधारियों की बढ़ती हुई मांग की पूर्ति हेतु आवश्यक क्षमता-वृद्धि को, उत्पादन संसाधन

की उपयुक्त सगर्भता अवधि (gestation period) पर विचार करते हुए, सम्मिलित किया जाएगा।

- 13.2 सर्वश्रेष्ठ विद्युत उत्पादन अधिप्राप्ति संसाधन मिश्र को चिह्नंकित करने हेतु एमपी पावर मैनेजमेंट कम्पनी द्वारा अनुकूलतम तकनीकों तथा न्यूनतम लागत मॉडलिंग को नियोजित किया जाएगा ताकि अनुपयोगी क्षमता (stranded capacity) से बचा जा सके। एमपी पावर मैनेजमेंट कम्पनी द्वारा इसे आयोग के समक्ष अनुमोदन के लिये प्रस्तुत की जाने वाली दीर्घ-अवधि वितरण संसाधन पर्याप्तता योजना (LT-DRAP) में प्रदर्शित किया जाएगा।
- 13.3 एमपी पावर मैनेजमेंट कम्पनी वितरण अनुज्ञप्तिधारियों की भविष्यगामी मांग की पूर्ति तथा संसाधन पर्याप्तता आवश्यकता (RAR) आबन्धों हेतु संसाधनों के सर्वश्रेष्ठ वर्ग (पोर्टफोलियो) को 'LT-NRAP' अध्ययन परिणामों से व्युत्पन्न निर्गत (output) के आधार पर संविदाकृत करेगी।
- 13.4 एमपी पावर मैनेजमेंट कम्पनी संसाधन पर्याप्तता आवश्यकता (RAR) की पूर्ति हेतु अंशदान के प्रति विद्युत उत्पादन के संसाधनों के दीर्घ/मध्यम/लघु-अवधि संविदाओं पर विचार करेगी :  
परन्तु यह कि दिवस-पूर्व विपणन (Day-Ahead Market-DAM) के माध्यम से विद्युत की अधिप्राप्ति को संसाधन पर्याप्तता आवश्यकता (RAR) की पूर्ति हेतु अंशदान के रूप में नहीं लिया जाएगा।
- 13.5 एमपी पावर मैनेजमेंट कम्पनी अपनी स्वयं की व्यस्ततम मांग (peak demand) की पूर्ति हेतु 'LT-DRAP' पर आधारित अतिरिक्त संसाधनों को संविदाकृत/अनुबंधित करेगी।
- 13.6 नवीकरणीय विद्युत क्रय आबन्ध (RPO) लक्ष्यों की पूर्ति हेतु नवीकरणीय ऊर्जा स्रोतों से विद्युत क्षमता अधिप्राप्ति को यथासंशोधित मध्यप्रदेश विद्युत नियामक आयोग (ऊर्जा के नवीकरणीय स्रोतों से विद्युत का सह उत्पादन तथा उत्पादन) (पुनरीक्षण-द्वितीय) विनियम 2021 के अनुसार कार्यान्वित किया जाएगा।
- 13.7 पवन, सौर फोटो वोल्टिक (PV), पवन-सौर संकर (Hybrid), चौबीसों घंटों (Round The Clock-RTC) विद्युत उत्पादन स्रोतों से विद्युत की प्राप्ति को विद्युत मन्त्रालय द्वारा अधिसूचित टैरिफ आधारित प्रतिस्पर्धात्मक बोली प्रक्रिया के दिशा-निर्देशों के अनुसार क्रियान्वित किया जाएगा।
- 13.8 एमपी पावर मैनेजमेंट कम्पनी द्वारा 'LT-DRAP' के परिणामों से सुसंबद्ध भविष्यगामी वर्षों हेतु क्षमता वृद्धि आवश्यकता बैटरी ऊर्जा संग्रहण प्रणाली (BESS), उद्वहन संग्रहण परियोजनाओं (PSP) या फिर अन्य किसी संग्रहण प्रौद्योगिकी के माध्यम से विद्युत मन्त्रालय, भारत सरकार द्वारा अधिसूचित टैरिफ आधारित प्रतिस्पर्धात्मक बोली प्रक्रिया के दिशा-निर्देशों के अनुसार, संग्रहण क्षमता को संविदाकृत किया जाएगा।
- 13.9 एमपी पावर मैनेजमेंट कम्पनी विद्युत की प्राप्ति हेतु अनुबंध राज्य विद्युत उत्पादन केन्द्रों/केन्द्रीय विद्युत उत्पादन केन्द्रों/स्वतन्त्र विद्युत उत्पादकों

(IPPs), आबद्ध (केप्टिव) ऊर्जा संयन्त्रों (CPPs)/नवीकरणीय ऊर्जा संयन्त्रों, सह-उत्पादन संयन्त्रों को सम्मिलित करते हुए/केन्द्रीय अभिकरणों/राज्य अभिकरणों/मध्यस्थों (Intermediaries)/व्यापारियों (Traders)/सेवा समूह केन्द्रों (aggregators)/पावर एक्सचेंजों अथवा द्विपक्षीय अनुबन्धों (bilateral agreements) के माध्यम से/अन्य वितरण अनुज्ञप्तिधारियों से अधिकोषण (बैंकिंग) व्यवस्थाओं के अनुसार आयोग द्वारा अनुमोदित किये जाने पर कर सकती है।

- 13.10 एमपी पावर मैनेजमेंट कम्पनी विद्युत की अधिप्राप्ति, लघु-अवधि तथा मध्यम-अवधि आधार पर 'DEEP' तथा 'PUSHY पोर्टल' एवं 'OTC Platform' के माध्यम से कर सकती है।

#### 14. अधिप्राप्ति के प्रकार तथा कालावधि (Procurement Type and Tenure)

- 14.1 एमपी पावर मैनेजमेंट कम्पनी संसाधनों की अधिप्राप्ति हेतु रूपात्मकताओं (modalities) तथा कालावधि (tenure) का अवधारण करते समय यह सुनिश्चित करेगी कि अधिप्राप्ति संविदाओं का निर्णय प्रथमतः क्षेत्र (region) के भीतर, न्यूनतम लागत संसाधन उपलब्धता के अध्यधीन पारेषण की सीमाबद्धताओं तथा क्षेत्र से बाहर से अधिप्राप्ति में पारेषण की लागत पर विचार करते हुए करेगा तथा तत्पश्चात् यदि आवश्यक हो तो संसाधनों की अधिप्राप्ति अंतरक्षेत्रीय भी की जा सकेगी।
- 14.2 एमपी पावर मैनेजमेंट कम्पनी विद्युत उत्पादन संसाधन मिश्र को चिन्हांकित करेगी तथा इसके साथ-साथ दीर्घ-अवधि, मध्यम-अवधि तथा लघु-अवधि काल की अधिप्राप्ति रणनीति के लिये आयोग का अनुमोदन प्राप्त करेगी।
- 14.3 एमपी पावर मैनेजमेंट कम्पनी अपनी समग्र विद्युत अधिप्राप्ति नियोजन पहुंच के लिये अधिक से अधिक जोर पर्याप्त संविदा-प्रक्रिया (contracting) के माध्यम से दीर्घ-अवधि तथा मध्यम-अवधि व्यवस्थाओं पर देगी। तथापि, एमपीपावर मैनेजमेंट कम्पनी यह सुनिश्चित करेगी कि नवीन दीर्घ-अवधि तथा मध्यम-अवधि संविदाएं अनुपयोगी क्षमता (stranded capacity) के संचय के प्रति अपना योगदान प्रदान न करें तथा न ही वे अनुपयोगी क्षमता के साथ संबद्ध स्थाई लागत के कारण उपभोक्ताओं पर अतिरिक्त वित्तीय बोझ डालें।
- 14.4 एमपी पावर मैनेजमेंट कम्पनी वार्षिक क्रमिक योजना के (Annual Rolling Plan) के माध्यम से, दीर्घ-अवधि/मध्यम-अवधि/लघु-अवधि के माध्यम से, वितरण अनुज्ञप्तिधारियों की विद्यमान तथा नियोजित अधिप्राप्ति व्यवस्था के अन्तर्गत धनात्मक क्षमता वृद्धि (incremental capacity addition) को कारित करना सुनिश्चित करेगी।

#### 15. क्षमता का सहभाजन (Sharing of Capacity)

एमपी पावर मैनेजमेंट कम्पनी संसाधन पर्याप्तता योजना (Resource Adequacy Plan) तैयार करते समय दीर्घ-अवधि/मध्यम-अवधि/लघु-अवधि क्षमता सहभाजन की संभावना का विधिवत कारक बनेगी तथा इस मंच का सर्वश्रेष्ठ उपयोग केन्द्रीय

आयोग/केन्द्र सरकार द्वारा सृजित अंतरराजीय सहभाजन तथा व्यापारिक क्रियाविधि में करेगी तथा क्षमता लागतों को यथासंभव अनुकूलतम बनायेगी।

#### 16. विद्युत क्रय अनुबन्ध का अनुमोदन (Approval of Power Purchase Agreement)

- 16.1 विद्युत क्रय आवश्यकता, उसकी लागत के युक्तियुक्त होने को दृष्टिगत रखते हुए तथा कार्य के दक्ष, मितव्ययी तथा न्यायसंगत विधि द्वारा संचालन के संवर्धन हेतु कोई भी नवीन क्षमता व्यवस्था/गठबन्धन (tieup) आयोग के पूर्व अनुमोदन के अधधीन होंगे।
- 16.2 विभिन्न स्रोतों से समस्त दीर्घ/मध्यम/लघु-अवधि अधिप्राप्ति केन्द्र सरकार/समुचित आयोग द्वारा समय-समय पर जारी किये गये दिशा-निर्देशों/नियमों विनियमों/नीतियों के अनुसार कार्यान्वित की जाएगी।
- 16.3 दीर्घ/मध्यम-अवधि हेतु कोई भी नवीन विद्युत क्रय अनुबन्ध (PPAs) या विद्यमान दीर्घ/मध्यम/लघु-अवधि विद्युत क्रय अनुबन्ध (PPAs)/विद्युत विक्रय अनुबन्ध (PSA) जो एमपी पावर मैनेजमेंट कम्पनी के साथ निष्पादित किये गये हैं से संबंधित संशोधन आयोग के अनुमोदन के अधधीन निष्पादित किये जाएंगे।
- 16.4 एमपी पावर मैनेजमेंट कम्पनी संसाधन पर्याप्तता योजना के साथ विभिन्न पारम्परिक विद्युत संयन्त्रों और नवीकरणीय ऊर्जा उत्पादकों के माध्यम से निष्पादित समस्त अनुबन्धों की सूची प्रस्तुत करेगी।

#### 17. विद्युत क्रय में परिवर्तन (Variation in Power Purchase)

एमपी पावर मैनेजमेंट कम्पनी अनुमोदित संसाधन पर्याप्तता अधिप्राप्ति योजना (approved resource adequacy procurement plan) के अतिरिक्त वर्ष के दौरान निम्न दर्शाई गई छूटों के कारण अतिरिक्त विद्युत की अधिप्राप्ति भी करेगी :

- (क) ऐसे प्रकरण में जहां विद्युत हेतु मांग में अप्रत्याशित वृद्धि हो गई हो या फिर वर्ष के दौरान विद्युत प्रदाय के किसी अनुमोदित स्रोत से विद्युत की आपूर्ति विफल हो गई हो या फिर विद्यमान गठबन्धित स्रोतों से विद्युत का स्रोतीकरण (sourcing) उपलब्ध वैकल्पिक स्रोतों से अपेक्षाकृत खर्चीला हो जाए तो एमपी पावर मैनेजमेंट कम्पनी विद्युत की अधिप्राप्ति हेतु अतिरिक्त अनुबन्ध निष्पादित कर सकेगी।
- (ख) एमपी पावर मैनेजमेंट कम्पनी आयोग के अनुमोदन के बिना लघु-अवधि व्यवस्था या विद्युत की अधिप्राप्ति हेतु अनुबन्ध निष्पादित कर सकेगी जब उसके द्वारा आपातकाल परिस्थितियों का सामना करने की बाध्यता निर्मित हो जाए जो ग्रिड की स्थिरता को जोखिम में डालती हों या फिर ऐसा करने हेतु राज्य भारप्रेषण केन्द्र (SLDC)/क्षेत्रीय भार प्रेषण केन्द्र (RLDC) द्वारा ग्रिड की विफलता की रोकथाम के लिये निर्देशित किया जाए या फिर आपात परिस्थितियों के दौरान तथा अन्य राज्यों के साथ अधिकोषण (बैंकिंग) हेतु लघु-अवधि आधार पर, अनुबन्ध निष्पादित कर सकेगी :

परन्तु यह कि विनियम 17.1(क) तथा (ख) में उल्लेखित अनुसार की गई किसी अधिप्राप्ति के विवरण विद्युत अधिप्राप्ति की तिथि से 45 दिवस के भीतर तर्कसंगत औचित्य के साथ आयोग को प्रस्तुत किये जाएंगे।

## अध्याय 6

### अनुश्रवण तथा अनुपालन (Monitoring and Compliance)

#### 18. अनुश्रवण तथा अनुपालन (Monitoring and Compliance)

एमपी पावर मैनेजमेंट कम्पनी/वितरण अनुज्ञप्तिधारियों को संसाधन पर्याप्तता आवश्यकता (Resource Adequacy Requirement) का अनुपालन इन विनियमों के विनियम 20 के अधीन निर्दिष्ट समय सीमाओं के भीतर करना होगा। इनका पालन न किये जाने की परिस्थिति में, समुचित अपालन प्रभार (non-compliance charges), जैसा कि वे आयोग द्वारा निर्धारित किये जाएं, लागू होंगे।

## अध्याय 7

### भूमिकाएं तथा उत्तरदायित्व और समय सीमाएं (Roles and Responsibilities & Time Lines)

#### 19. आंकड़ों की आवश्यकता तथा सहभाजन प्रोटोकॉल (Data Requirement and Sharing Protocol)

19.1 वितरण अनुज्ञप्तिधारी मांग आकलन (demand assesment) तथा पूर्वानुमान संबंधी समस्त आंकड़े एमपी पावर मैनेजमेंट कम्पनी लिमिटेड तथा राज्य भार प्रेषण केन्द्र से साझा करेंगे, जैसे कि :

- क) उपभोक्ता संबंधी आंकड़े (consumer data) ;
- ख) ऐतिहासिक मांग आंकड़े(Historical demand data) ;
- ग) मौसम संबंधी आंकड़े (weather data) ;
- घ) जनसांख्यिकी एवं आर्थिक परिवर्ती (demographic and economic variables) ;
- ङ) वितरण हानियां और राज्यान्तरिक/अन्तर्राज्यीय पारेषण हानियां (Distribution losses and intra/inter-state Transmission losses) ;
- च) वास्तविक विद्युत ऊर्जा की आवश्यकता (Actual energy requirement) ;
- छ) उपलब्धता, कटौती को सम्मिलित करते हुए, व्यस्ततम विद्युत मांग (peak electricity demand) तथा विद्युत की पूर्ति मय मांग परिदृश्य में परिवर्तन के (उदाहरण, कृषि अन्तरण (agricultural shift), उपयोग का समय (time of use), आदि ; और
- ज) ऐतिहासिक घंटावार भार प्रतिमान (Historical hourly load pattern), आदि।

- 19.2 वितरण अनुज्ञप्तिधारी नीतियों (policies) तथा परिचालकों (drivers) के बारे में समस्त सांख्यिकी (statistics) तथा आंकड़ा-आधार (data base) को संधारित तथा एमपी पावर मैनेजमेंट कम्पनी के साथ साझा करेंगे, जैसे कि
- क) LED का प्रभाव(penetration), दक्ष पंखों/वातानुकूल प्रणाली का प्रभाव (penetration), उपकरणों का प्रभाव, घरों में भोजन तैयार करने में उपकरणों का बढ़ता हुआ चलन, तापन (heating), शीतलन (cooling) आदि,
  - ख) भौगोलिक क्षेत्रों (areas/regions) हेतु वाणिज्यिक गतिविधियों में वृद्धि;
  - ग) कृषि पम्पों की संख्या में वृद्धि ;
  - घ) वितरण अनुज्ञप्तिधारियों के क्षेत्र में सौरीकरण (solarization);
  - ङ) विशिष्ट ऊर्जा खपत (special energy consumption) में परिवर्तन ;
  - च) मौसमी उपभोक्ताओं से खपत का प्रतिमान ;
  - छ) मांग परक प्रबन्धन (Demand Side Management-DSM)
  - ज) वितरित ऊर्जा संसाधन (Distributed Energy Resources-DERs) ;
  - झ) विद्युतीय वाहन (Electric Vechiles),
  - ञ) निर्बाध (खुली पहुंच) (Open Access-OA),
  - ट) राष्ट्रीय हाइड्रोजन मिशन ;
  - ठ) समग्र तकनीकी तथा वाणिज्यिक हानियों (AT&C Losses) में कमी :

परन्तु यह कि घरों से संबंध सांख्यिकी तथा आंकड़ा आधार (data base), जैसे कि LED का प्रभाव, दक्ष पंखा प्रभाव, उपकरण प्रभाव, भोजन तैयार करने में विद्युत उपकरणों का बढ़ता हुआ चलन आदि का उपयोग एमपी पावर मैनेजमेंट कम्पनी द्वारा किया जा सकेगा जब कभी भी सांख्यिकी सूचना तथा आंकड़ा आधार (data base) वितरण अनुज्ञप्तिधारियों के माध्यम से उपलब्ध हो जाए।

- 19.3 वितरण अनुज्ञप्तिधारियों द्वारा उपभोक्ताओं की प्रत्येक श्रेणी, जैसे कि घरेलू, वाणिज्यिक, सार्वजनिक प्रकाश व्यवस्था, सार्वजनिक जलापूर्ति कार्य (Public Water Work), कृषि/सिंचाई, निम्न दाब उद्योग, उच्च दाब उद्योग, रेलवे कर्षण, विपुल (थोक) (गैर-औद्योगिक उच्च दाब उपभोक्ता), निर्बाध (खुली) पहुंच (open access), आबद्ध (केप्टिव) विद्युत संयंत्र, भार सर्वेक्षण संबंधी सभी जानकारीयां(insights), व्यस्ततम मांग (peak demand) के प्रति उपभोक्ता श्रेणी का योगदान, मौसमी परिवर्तन पहलुओं के बारे में खपत परिदृश्यों से संबंधित उनके आंकड़ा आधार की सांख्यिकी के कम से कम पूर्व के दस वर्षों के आंकड़े संधारित तथा एमपी पावर मैनेजमेंट कम्पनी लिमिटेड के साथ साझा किये जाएंगे।



- 19.4 एमपी पावर मैनेजमेंट कम्पनी/राज्य भार प्रेषण केन्द्र (SLDC) वितरण अनुज्ञप्तिधारी विशिष्ट तथा पूर्ण रूप से राज्य हेतु समग्र मांग आकलन संबंधी जानकारी सांख्यिकी तथा ऊपर उल्लेखित समग्र मांग से संबंधित आंकड़ा आधार एवं पूर्वानुमान आंकड़े, का संधारण करेंगे तथा राज्य-स्तर के आकलन को प्राधिकरण/राष्ट्रीय भार प्रेषण केन्द्र (NLDC) तथा क्षेत्रीय भार प्रेषण केन्द्र (RLDC) के साथ क्षेत्रीय/राष्ट्रीय आकलन को समय-समय पर साझा करेंगे।
- 19.5 एमपी पावर मैनेजमेंट कम्पनी, राज्य स्तरीय क्षमता क्रेडिट कारकों की गणना हेतु तथा राज्य-स्तरीय आकलन तैयार करने के लिए राज्य भार प्रेषण केन्द्र (SLDC) के साथ विद्यमान तथा अनुबन्धित क्षमताओं (contracted capacities) से संबंधित सूचना/जानकारी तथा आंकड़े, मय उनकी तकनीकी तथा वित्तीय विशिष्टताओं के, घंटेवार विद्युत उत्पादन परिदृश्यों को सम्मिलित करते हुए परस्पर साझा करेगी।
- 19.6 राज्य भार प्रेषण केन्द्र तथा एमपी पावर मैनेजमेंट कम्पनी विद्युत उत्पादन आंकड़ों का संकलन करेंगे तथा राज्य स्तरीय प्रक्षेपणों (projections) को यथास्थिति, प्राधिकरण (Authority) एवं राष्ट्रीय भार प्रेषण केन्द्र (NLDC) के साथ संसाधन पर्याप्तता आवश्यकता (Resource Adequacy Requirement) के आकलन हेतु साझा करेंगे।

## 20. निर्धारित की गई समय सीमाएं (Time Lines)

- 20.1 वितरण अनुज्ञप्तिधारी पूर्व वित्तीय वर्षों से संबंधित श्रेणीवार खपत संबंधी जानकारी तथा अन्य कोई जानकारी जैसा कि वह एमपी पावर मैनेजमेंट कम्पनी द्वारा चाही जाए, अनुवर्ती वर्ष(ि) के लिये प्रत्येक वर्ष की 21 अप्रैल तक प्रस्तुत करेंगे।
- 20.2 एमपी पावर मैनेजमेंट कम्पनी/राज्य भार प्रेषण केन्द्र, राज्य के वितरण अनुज्ञप्तिधारियों की ओर से आगामी दस वर्षों के लिये मांग पूर्वानुमान (व्यस्ततम (peak) तथा ऊर्जा की आवश्यकता), विद्यमान विद्युत उत्पादन संसाधनों का आकलन, क्षमता क्रेडिट (CC) कारक संबंधी जानकारी तथा ऐसे अन्य विवरण जैसा कि वे 'LT-NRAP' से केन्द्रीय विद्युत प्राधिकरण (CEA) तथा 'ST-NRAP' से राष्ट्रीय भार प्रेषण केन्द्र (NLDC) हेतु चाहे जाएं अनुवर्ती वर्ष(ि) के लिये प्रत्येक वर्ष की 31 मई तक प्रस्तुत करेंगे।
- 20.3 भारत सरकार, विद्युत मन्त्रालय द्वारा अधिसूचित 'Guidelines for Resource Adequacy Planning Framework of India' दिनांक 28 जुलाई, 2023 के 'Annexure-F' के अनुसार प्रदत्त समय-सीमाओं (timelines) के अनुसार 'LT-NRAP' प्रतिवेदन केन्द्रीय विद्युत प्राधिकरण द्वारा आगामी वर्ष(ि) (ensuing year(s)) के लिए प्रति वर्ष 15 जुलाई तक प्रकाशित किया जाना अपेक्षित है तथा 'ST-NRAP' प्रतिवेदन राष्ट्रीय भार प्रेषण केन्द्र (NLDC) द्वारा प्रति वर्ष आगामी वर्ष(ि) के लिये 31 जुलाई तक प्रकाशित किया जाना अपेक्षित है।
- 20.4 एमपी पावर मैनेजमेंट कम्पनी राष्ट्रीय व्यस्ततम अवधि (National Peak) में वितरण अनुज्ञप्तिधारी के अंशदान के आवंटन को 'LT-NRAP' हेतु प्रतिवेदन

प्रकाशन तिथि से 15 दिवस के भीतर अनुवर्ती वर्ष(ि) के प्रत्येक वर्ष के लिए 15 अगस्त तक प्रस्तुत करेगी।

- 20.5 एमपी पावर मैनेजमेंट कम्पनी 'LT-DRAP' योजनाएं केन्द्रीय विद्युत प्राधिकरण को अनुसमर्थन (validation) हेतु अनुवर्ती वर्ष(ि) के लिये प्रत्येक वर्ष 30 सितम्बर तक प्रस्तुत करेगी।
- 20.6 एमपी पावर मैनेजमेंट कम्पनी वितरण अनुज्ञप्तिधारी की ओर से केन्द्रीय विद्युत प्राधिकरण द्वारा विधिवत जांच की गई (duly vetted) 'LT-DRAP' योजना, संसाधन पर्याप्तता आवश्यकता (RAR)की पूर्ति हेतु विवरणों के साथ आयोग को केन्द्रीय विद्युत प्राधिकरण का अनुमोदन प्राप्त होने की तिथि से 15 दिवस के भीतर प्रस्तुत करेगी।
- 20.7 आयोग द्वारा एमपी पावर मैनेजमेंट कम्पनी द्वारा वितरण अनुज्ञप्तिधारियों की ओर से प्रस्तुत संसाधन पर्याप्तता योजना (Resource Adequacy Plan) इसकी प्रस्तुति तिथि से 30 दिवस के भीतर अनुमोदित की जाएगी।
- 20.8 एमपी पावर मैनेजमेंट कम्पनी अनुवर्ती वर्ष हेतु संविदाकृत क्षमताओं (contracted capacities) के विवरण संसाधन पर्याप्तता आवश्यकता (RAR) की पूर्ति हेतु राज्य भार प्रेषण केन्द्र (SLDC) को आयोग द्वारा इसकी अनुमोदन तिथि से 30 दिवस के भीतर प्रस्तुत करेगी।
- 20.9 राज्य भार प्रेषण केन्द्र (SLDCs) राज्य स्तर पर कुल संविदाकृत क्षमताओं (contracted capacities) को समेकित करेंगे तथा इसकी जानकारी क्षेत्रीय भार प्रेषण केन्द्र (RLDC) को, आयोग को सूचित करते हुए, एमपी पावर मैनेजमेंट कम्पनी से इसके प्राप्त होने की तिथि से 15 दिवस के भीतर प्रस्तुत करेंगे।
- 20.10 भारत सरकार, विद्युत मन्त्रालय द्वारा अधिसूचित 'Guidelines for Resource Adequacy Planning Framework of India' दिनांक 28 जुलाई, 2023 के 'Annexure-F' के अनुसार प्रदत्त समय-सीमाओं (timelines) के अनुसार क्षेत्रीय भार प्रेषण केन्द्र द्वारा क्षेत्रीय स्तर पर क्षमताओं को समेकित किया जाएगा तथा इसकी जानकारी राज्य भार प्रेषण केन्द्र (NLDC) को माह फरवरी तक प्रस्तुत की जाएगी।
- 20.11 अवशेष क्षमता में कमी (balance capacity shortfall) हेतु संविदा संबंधी कार्यवाही (contracting) जैसा कि इसे राष्ट्रीय भार प्रेषण केन्द्र (NLDC) द्वारा सूचित किया जाए, एमपी पावर मैनेजमेंट कम्पनी द्वारा अनुवर्ती वर्ष(ि) हेतु प्रति वर्ष माह मार्च के अन्त तक पूर्ण कर ली जाएगी :

परन्तु यह कि यदि एमपी पावर मैनेजमेंट कम्पनी अवशेष क्षमता में कमी (balance capacity shortfall) को दीर्घ/मध्यम अवधि विद्युत अधिप्राप्ति के माध्यम से संविदाकृत/अनुबंधित करता हो तो यह कार्यवाही इन विनियमों के विनियम 16.3 के अनुसार आयोग के पूर्व अनुमोदन के अधीन की जा सकेगी।

- 20.12 एमपी पावर मैनेजमेंट कम्पनी अवशेष क्षमता (balance capacity) हेतु संविदा संबंधी कार्यवाही पश्चात् चालू वर्ष(ों) हेतु प्रति वर्ष 01 अप्रैल तक इसकी जानकारी आयोग को प्रस्तुत करेगी।

परन्तु यह कि यदि राष्ट्रीय भार प्रेषण केन्द्र (NLDC) द्वारा अवशेष क्षमता में कमी (Balance Capacity shortfall) के सम्प्रेषण में विलम्ब किया जाता है तो एमपी पावर मैनेजमेंट कम्पनी को समय-सीमा में वृद्धि हेतु अवशेष क्षमता के अनुबन्ध (contracting) के लिए आयोग से प्रति वर्ष 25 मार्च तक अनुमोदन प्राप्त करना होगा।

## अध्याय 8

### विविध (Miscellaneous)

#### 21. वेबसाइटों पर जानकारी की स्थापना (Planning of information on web sites)

- 21.1 म.प्र.पावर.मैनेजमेंट कम्पनी द्वारा मासिक/साप्ताहिक/दिवस-पूर्व/दिवस के अन्तर्गत विद्युत संबंधी अधिप्राप्तियों/विक्रय तथा विद्युत उत्पादक अनुसूची को वितरण अनुज्ञप्तिधारियों की ओर से एमपी पावर मैनेजमेंट कम्पनी की वेबसाइट तथा राज्य भार प्रेषण केन्द्र की वेबसाइट पर ऐसी अधिप्राप्तियों/विक्रय के 45 दिवस की अवधि के भीतर चालू तथा अभिलेखित आंकड़ों तक सुलभ पहुंच के साथ उपलब्ध कराया जाएगा।
- 21.2 राज्य भार प्रेषण केन्द्र भी प्रत्येक विद्युत उत्पादन केन्द्र हेतु सुयोग्यता क्रमानुसार प्रेषण पुंज (एमओडी स्टैक) मय प्रति यूनिट परिवर्तनीय लागत के अपनी वेबसाइट पर प्रकाशित करेगा।

#### 22. समर्पित प्रकोष्ठों का गठन (Constitution of Dedicated Cells)

- 22.1 एमपी पावर मैनेजमेंट कम्पनी/वितरण अनुज्ञप्तिधारियों द्वारा इस विनियम के प्रभावशील होने की तिथि से तीन माह के भीतर संसाधन पर्याप्तता (Resource Adequacy) बाबत एक नियोजन प्रकोष्ठ का गठन किया जाएगा। प्रकोष्ठ द्वारा मांग पूर्वानुमान, क्षमता, नवीकरणीय ऊर्जा के एकीकरण, आदि हेतु वांछित योग्यता तथा औजार धारित किये जाएंगे।
- 22.2 एमपी पावर मैनेजमेंट कम्पनीद्वारा एक अन्य चौबीसों घंटे संचालित होने वाले समर्पित प्रकोष्ठ का गठन भी वास्तविक समय (Real Time) के आधार पर विद्युत क्रय/विक्रय हेतु किया जाएगा जो दिवस-अन्तर्गत, दिवस-पूर्व, सप्ताह पूर्व पावर एक्सचेंजों तथा अन्य साधनों के माध्यम से विद्युत की अधिप्राप्तिका दायित्व भी निर्वहन करेगा। एमपी पावर मैनेजमेंट कम्पनी/वितरण अनुज्ञप्तिधारियों द्वारा समर्पित प्रकोष्ठ के कार्य संचालन हेतु इस विनियम के अभिप्राय से संरेखित उचित दिशा-निर्देशों की संरचना की जाएगी तथा इन विनियमों के लागू होने से 45 दिवस के भीतर आयोग को इस बारे में अवगत कराया जाएगा।

#### 23. मूल्यांकन हेतु परामर्शियों को सन्निहित करना (Assesment to Involve Consultation)

एमपी पावर मैनेजमेंट कम्पनी संसाधन पर्याप्तता योजना (Resource Adequacy Plan) राज्य क्षेत्र की विद्युत उत्पादन कम्पनियों, वितरण अनुज्ञप्तिधारियों, केन्द्रीय क्षेत्र की

विद्युत उत्पादन कम्पनियों, पारेषण (ट्रांसमिशन) कम्पनियों, राष्ट्रीय/क्षेत्रीय/राज्य भार प्रेषण केन्द्रों तथा केन्द्रीय विद्युत प्राधिकरण के परामर्श से तैयार करेगी। इसके द्वारा इस संबंध में ट्रेडिंग कम्पनियों तथा राज्यों से व्यस्ततम, अव्यस्ततम तथा समान समयावधियों बाबत अधिशेष विद्युत की संभावित उपलब्धता तथा विद्युत के मूल्य के बारे में जानकारी बाबत राष्ट्रव्यापी पूछताछ भी की जाएगी :

परन्तु यह कि एमपी पावर मैनेजमेंटकम्पनी सुसंबद्ध अनुभव से युक्त शोध /अनुसंधान अभिकरणों से परामर्श भी कर सकेगी।

**24. आदेशों को जारी करने तथा व्यावसायिक निर्देश देने की शक्ति (Power to Issue Orders and Give Practice Directions)**

विद्युत अधिनियम, 2023 के उपबन्धों तथा इन विनियमों के अधीन आयोग समय-समय पर इन विनियमों को कार्यान्वित करने तथा प्रक्रिया जिसका पालन किया जाना है, के संबंध में आदेश तथा प्रचलन दिशा-निर्देश जारी कर सकेगा जैसा कि उचित समझा जाए।

**25. शिथिल करने की शक्ति (Power to Relax)**

आयोग लिखित कारणों के अभिलेखन पश्चात् इन विनियमों से संबंधित कतिपय प्रावधानों को स्वप्रेरणा से या हित रखने वाले किसी पक्षकार द्वारा उसके समक्ष आवेदन प्रस्तुत करने पर किसी सामान्य या विशेष आदेश के माध्यम से शिथिल कर सकेगा।

**26. कठिनाइयां दूर करने की शक्ति (Power to Remove Difficulties)**

इन विनियमों के उपबन्धों को प्रभावी बनाने में कोई कठिनाई उत्पन्न होने पर आयोग किसी आदेश द्वारा ऐसे प्रावधान कर सकेगा जो इन विनियमों अथवा अधिनियम के उपबन्धों के विरोधाभासी न होंगे जैसा कि आयोग को उचित प्रतीत हो तथा कठिनाई दूर करने में वांछनीय हों।

**27. संशोधन करने के अधिकार (Power to Remove Difficulties)**

आयोग समय-समय पर इन विनियमों के किसी भी उपबन्ध में परिवर्धन, परिवर्तन, सुधार या संशोधन आवश्यक प्रक्रियाओं के परिचालन पश्चात् कर सकेगा।

**28. निरसन एवं व्यावृत्ति (Repeal and Sewings)**

28.1 इन विनियमों में कुछ भी आयोग की अन्तर्निहित शक्तियों को ऐसे आदेश जो न्याय हित में या आयोग की प्रक्रियाओं में दोष रोकने के लिये जारी करना आवश्यक हैं सीमित या अन्यथा प्रभावित नहीं करेगा।

28.2 इन विनियमों में कुछ भी आयोग को इस अधिनियम के प्रावधानों के अनुरूप किसी विषय या विषयों के वर्ग की विशिष्ट परिस्थितियों को दृष्टिगत रखते हुए लिखित कारणों सहित यदि आयोग आवश्यक व उचित समझे तो ऐसी प्रक्रिया अपनाने से नहीं रोकेंगे जो इन विनियमों के प्रावधानों से अन्यथा हो।

28.3 इन विनियमों में विशिष्ट या अन्तर्गत कुछ भी आयोग को किसी अधिकार के उपयोग से नहीं रोकेंगे जिसके लिये कोई विनियम न बनाया गया हो

तथा आयोग ऐसे विषयों, अधिकारों तथा कार्यों को उस प्रकार से, जैसे वह उचित समझे, निवर्तित कर सकेगा।

- 28.4 विनियम, अर्थात् मध्यप्रदेश विद्युत नियामक आयोग {विद्युत क्रय तथा अध्याप्ति (प्रोक्यूरमेंट) प्रक्रिया} विनियम, 2023 {आरजी-19(III) वर्ष, 2023} जिसे अधिसूचना क्रमांक 378/मप्रविनिआ/2023 दिनांक 17 फरवरी, 2023 द्वारा मध्यप्रदेश शासन के राजपत्र में दिनांक 24 फरवरी, 2023 को प्रकाशित किया गया है, को इसके साथ पठित समस्त संशोधनों, जैसा कि वे इस विनियम की विषयवस्तु के साथ प्रयोज्य हैं, को एतद्वारा निरस्त किया जाता है जैसा कि इन विनियमों के विनियम 1.3 में निर्दिष्ट किया गया है।

टीप : इस मध्यप्रदेश विद्युत नियामक आयोग (संसाधन पर्याप्तता हेतु संरचना) विनियम, 2024 के हिन्दी रूपान्तरण के प्रावधानों की व्याख्या या विवेचन या समझने की स्थिति में किसी प्रकार का विरोधाभास होने पर इसके अंग्रेजी संस्करण (मूल संस्करण) के संबंधित प्रावधानों में दी गई विवेचना के अनुसार ही उसका तात्पर्य माना जाएगा एवं इस संबंध में किसी प्रकार की स्थिति में आयोग का निर्णय अन्तिम एवं बाध्यकारी होगा।

आयोग के आदेशानुसार,  
उमाकान्त पाण्डा, आयोग सचिव.

**संलग्नक-1****सीमाबद्धताओं से युक्त संसाधन पर्याप्तता योजना को तैयार करने की विधि(Method of Preparation of Resource Adequacy Plan with Constraints)**

- (क) वार्षिक ऊर्जा आवश्यकता के पूर्वानुमान मूल्यों (forecasted values) तथा व्यस्ततम मांग प्रक्षेप-वक्र (Peak demand trajectory) के आधार पर एमपीपावर मैनेजमेंट कम्पनी द्वारा वितरण अनुज्ञप्तिधारियों की घंटेवार मांग परिदृश्य को नियोजन अवधि के अन्तर्गत प्रक्षेपित किया जाएगा। वार्षिक ऊर्जा आवश्यकता तथा व्यस्ततम मांग के पूर्वानुमान की गणना, इन विनियमों के विनियम 6.7 में निर्दिष्ट विधियों के प्रयोग द्वारा की जाएगी। भविष्यगामी वर्षों के लिये प्रक्षेपित घंटेवार मांग का उपयोग मॉडल में निविष्टियों (inputs) के रूप में किया जाएगा। एमपी पावर मैनेजमेंट कम्पनी द्वारा यह सुनिश्चित किया जाएगा कि चयन किया गया नियोजन मॉडल घंटेवार कालक्रमिक वियोजन<sup>1</sup> (hourly chronological resolution) पर अनुकरण किये जाने योग्य है। यह इसलिये आवश्यक है ताकि पारम्परिक विद्युत उत्पादन में वृद्धि, नवीकरणीय ऊर्जा उत्पादन के परिदृश्यों तथा ऊर्जा संग्रहण व्यवहार के संबंध में प्रणाली के व्यवहार को अधिकार में लिया जा सके।
- (ख) भविष्य में आने वाले समस्त वर्षों हेतु मांग परिदृश्य के स्थापित हो जाने के पश्चात्, समस्त विद्युत प्रणाली के मानदण्डों से जुड़ी भविष्य की मांग की पूर्ति हेतु कुल प्रणाली लागत को न्यूनतम करने हेतु मॉडल द्वारा अनुकूलन अभ्यास का निष्पादन किया जाएगा। एमपी पावर मैनेजमेंट कम्पनी द्वारा मॉडलिंग करते समय निम्न सीमाबद्धताओं (constraints) पर विचार किया जाना चाहिए :

- ❖ **नियोजन संचिति परिसीमा(Planning Resource Margin)/संसाधन पर्याप्तता आवश्यकता (Resource Adequacy Requirement) :** संसाधन पर्याप्तता आवश्यकता (RAR) संबंधी सीमाबद्धता द्वारा यह सुनिश्चित किया जाएगा कि वितरण अनुज्ञप्तिधारी की संसाधन पर्याप्तता (उत्पादन क्षमता) नियोजन संचिति परिसीमा की पूर्ति करे जैसा कि इसे केन्द्रीय विद्युत प्राधिकरण द्वारा अवधारित किया गया है। प्रत्येक वितरण अनुज्ञप्तिधारी हेतु संसाधन पर्याप्तता आवश्यकता की गणना निम्नानुसार की जाएगी :

आरएआर(RAR)= पूर्वानुमान राष्ट्रीय व्यस्ततम मांग का अंशदान<sup>2</sup> गीगावाट में  $x(1+PRM)$

आपूर्ति पक्ष (Supply Side) की ओर से, संसाधन पर्याप्तता आवश्यकता (RAR), "स्थाई क्षमता (firm capacity)" या क्षमता क्रेडिटों (CC) (संविदाकृत/नियोजित क्षमताओं के (नवीकरणीय ऊर्जा स्रोतों, संग्रहण, अन्य स्रोतजैसे कि मांग अनुक्रिया))मय घटी हुई अन्तर्संयोजन सीमाएं (आयात)<sup>3</sup> का योग होगा।

दोनों आपूर्ति पक्ष तथा मांग पक्ष RAR का मिलान होना चाहिए। ताप क्षमता क्रेडिट की गणना स्थापित क्षमता में से सहायक खपत तथा अनिवार्य अवरोध (Forced Outage) को घटा कर की जाएगी।

1 वर्ष के दौरान बाल श्रमिक वियोजन पर समस्त 8760 घंटे (लिप वर्ष हेतु 8784 घंटे) अनुकरण किये जाने को वरियता दी जाएगी। तथापि, यदि कम्प्यूटरीकृत चुनीतियों का सामना करना पड़े तो एमपी पावर मैनेजमेंट कम्पनी प्रतिनिधि अवधियों का चयन कर सकती है जो अलग हो सकते हैं। चयनित की गई प्रतिनिधि अवधियां आधार वर्ष तथा आने वाले वर्षों के लिए विभिन्न प्रक्षेपित मांग तथा प्रदाय परिदृश्यों को प्रतिबिंबित करती हैं। प्रारम्भिक तौर पर, घंटेवार अनुकरण घंटेवार आंकड़ों की उपलब्धता पर आधारित नियोजित किया जाता है। तथापि, समय कलात्मकता (Granularity) में वृद्धि उप-घंटेवार तक की जा सकती है बशर्ते उप-घंटेवार मांग तथा नवीकरणीय ऊर्जा उत्पादन आंकड़ा उपलब्ध हो।

2 इसकी गणना राष्ट्रीय व्यस्ततम मांग के समय वितरण अनुज्ञप्तिधारी की मांग के रूप में की जाती है।

3 स्थाई क्षमता की गणना इन विनियमों के संलग्नक-3 में दिये गये विवरण के अनुसार की जाएगी।

राष्ट्रीय व्यस्ततम की पूर्ति हेतु विद्युत उत्पादन संसाधनों हेतु क्षमता क्रेडिट तथा मांग अनुक्रिया संसाधन को केन्द्रीय विद्युत प्राधिकरण द्वारा प्राक्कलित किया जाएगा। केन्द्रीय विद्युत प्राधिकरण द्वारा प्रकाशित क्षमता क्रेडिट प्रत्येक संसाधन प्रकार के लिये विद्यमान तथा नवीन संसाधनों के मध्य तथा पृथक क्षेत्रों के संसाधनों के मध्य अलग-अलग हो सकते हैं। उदाहरण के तौर पर, दक्षिणी क्षेत्र में सौर ऊर्जा आधारित विद्युत संयन्त्र का क्षमता क्रेडिट उत्तर क्षेत्र में स्थापित सौर ऊर्जा संयन्त्र के क्षमता क्रेडिट की तुलना में अलग हो सकता है। इसी प्रकार एक उदीयमान पवन ऊर्जा आधारित विद्युत संयन्त्र का क्षमता क्रेडिट उसी क्षेत्र में पूर्व ही से क्रियाशील किये गये पवन ऊर्जा संयन्त्र से अलग हो सकता है। एमपी पावर मैनेजमेंट कम्पनी अपने RAR की पूर्ति का नियोजन करते समय इन क्षमता क्रेडिटों का उपयोग करेगी। उदाहरण के लिये, एक वितरण अनुज्ञप्तिधारी दक्षिणी राज्य में स्थित किसी विद्यमान अनुबंधित सौर ऊर्जा आधारित विद्युत संयन्त्र के लिये दक्षिणी क्षेत्र में स्थित किसी सौर ऊर्जा संयन्त्र का क्षमता क्रेडिट का उपयोग करेगा।

❖ **पोर्टफोलियो अवशेष सीमाबद्धताएं (Portfolio balance constraints)** : पोर्टफोलियो अवशेष सीमाबद्धताओं के लिए यह सुनिश्चित किया जाएगा कि क्षेत्र/राज्य/वितरण अनुज्ञप्तिधारियों के नियन्त्रण क्षेत्र के भीतर कुल विद्युत उत्पादन तथा क्षेत्र/राज्य वितरण अनुज्ञप्तिधारियों के नियन्त्रण क्षेत्र में विद्युत का आयात, मांग, क्षेत्र/राज्य/वितरण अनुज्ञप्तिधारियों से निर्यात, कोई ऊर्जा जिसे सेवाकृत नहीं किया गया है तथा प्रत्येक घंटे के लिये कटौती के योग के बराबर होगा।

❖ **नवीकरणीय विद्युत उत्पादन सीमाबद्धताएं (RE Generation Constraints)**: नवीकरणीय संसाधनों हेतु जैसे कि सौर तथा पवन ऊर्जा हेतु, नवीकरणीय ऊर्जा उत्पादन सीमाबद्धताओं को संसाधन के घंटावार परिदृश्य (profile) के अनुसार सीमाबद्ध किया जाएगा। घंटावार परिदृश्य उत्पादन करने हेतु नवीकरणीय स्रोतों के ऐतिहासिक परिदृश्यों का उपयोग किया जाएगा। अतिरिक्त सीमाबद्धताएं यह सुनिश्चित करेंगी कि वितरण अनुज्ञप्तिधारियों के समग्र नवीकरणीय उत्पादन लक्ष्यों की पूर्ति होती रहे तथा 'LT-DRAP' का प्रतिपादन करते समय इन्हें भी सम्मिलित कर लिया जाए।

❖ **पारम्परिक विद्युत उत्पादन सीमाबद्धताएं (Conventional Generation Constraints)**

(क) सौर तथा पवन ऊर्जा के विपरीत ताप संसाधन प्रेषण योग्य (dispatchable) होते हैं। तथापि ताप संसाधन सीमाबद्धताओं द्वारा आबद्ध (bound) होते हैं जैसे कि उच्चतम तथा न्यूनतम उत्पादन सीमाएं, ढलान (रैम्प) दरें, चक्रण आरक्षण प्रस्ताव (Spinning reserve offers), संयन्त्र उपलब्धता तथा इकाई वचनबद्धता निर्णय।

(ख) प्रत्येक विद्युत उत्पादक हेतु प्रेषण (ऊर्जा का प्रस्ताव)+आरक्षण प्रस्ताव (केविआ/मप्रविआ विनियम के माध्यम से निर्दिष्ट किये गये) को उच्चतम तथा न्यूनतम उत्पादन सीमाओं के भीतर सीमाबद्ध किया जाता है। दो क्रमिक समय खण्डों के मध्य विद्युत उत्पादन संसाधनों की रैम्पिंग (ramping) योग्यताओं के भीतर अवस्थित होना चाहिए। यूनिट वचनबद्ध निर्णय, जैसे कि चालू (start up)/बन्द (shut down), चालू तथा बंद होने की अवधि का न्यूनतम होना आदि, इनके क्रियान्वयन हेतु दोहरे परिवर्तियों (binary variables) की आवश्यकता होती है तथा इन्हें सम्मिलित किया जाना आवश्यक होता है। इसके अतिरिक्त विद्युत उत्पादन इकाईयां अवरोध की अवधियां धारित कर सकती हैं जिन्हें उपलब्धता

कारक (availability factor) के उपयोग द्वारा अधिकार में लेने की आवश्यकता होती है।

- (ग) प्रत्येक वर्ष हेतु क्षमता को सीमाबद्धता (constraint) द्वारा खोजे जाने की आवश्यकता होती है जिससे यह सुनिश्चित हो जाता है कि किसी विशिष्ट वर्ष में क्षमता पूर्व वर्ष की क्षमता + नवीन क्षमता निवेश-सेवा निवृत्त क्षमता यदि कोई हो, होती है।

❖ **नवीकरणीय विद्युत क्रय आबन्ध सीमाबद्धताएं (RPO Constraints):** नवीकरणीय विद्युत क्रय आबन्ध की पूर्ति को संसाधन पर्याप्तता के उद्देश्यों में से एक होना माना जाता है। प्रौद्योगिकी विकल्प जैसे कि चौबीसों घंटे नवीकरणीय विद्युत उत्पादन द्वारा ऊर्जा की आपूर्ति जिसे संग्रहण (बैटरी तथा PSP) द्वारा सहायता प्रदान की जाती है, स्वचालित (standalone) नवीकरणीय क्षमता मय नवीकरणीय उत्पादन के सन्तुलन हेतु जल विद्युत क्षमता पर विचार वितरण अनुज्ञप्तिधारियों हेतु संसाधन पर्याप्तता अभ्यास करते समय किया जाएगा।

❖ **संग्रहण सीमाबद्धताएं (Storage Constraints):** नवीकरणीय ऊर्जा के आवर्तक (intermittent) प्रकार की प्रकृति का होने के कारण, संसाधनों हेतु आवश्यकता जिनके द्वारा अधिशेष ऊर्जा का संग्रहण किया जा सकता है तथा न्यूनतम नवीकरणीय ऊर्जा उत्पादन अवधियों के दौरान संग्रहीत ऊर्जा का प्रेषण किया जाता है, एक महत्वपूर्ण पहलू है। किसी भी समय संग्रहण का आवेश (चार्ज) तथा निरावेश (डिस्चार्ज) होना या फिर आवेश की स्थिति (state of charge) संग्रहण के चार्ज स्तर तथा अधिकतम चार्ज/डिस्चार्ज सीमा द्वारा सीमाबद्ध होती है। संसाधन ऐसे समय पर निरावेश (डिस्चार्ज) होता है यदि उसके संसाधन की पूर्व चार्जिंग के कारण पर्याप्त ऊर्जा धारित की जा रही हो। इसके क्रियान्वयन हेतु समय के कालक्रमिक क्रम (chronological sequence) पर विचार किया जाना भी महत्वपूर्ण है। चूंकि संग्रहण संसाधन विद्युत को ऊर्जा के अन्य प्रकार में परिवर्तित कर देते हैं ऐसे में कतिपय दक्षमता हानियां (परिक्रमायुक्त दक्षता (round tripefficiency) घटित होती है, जिनका लेखांकन किया जाएगा। विभिन्न प्रौद्योगिकियों भिन्न-भिन्न निरावेश (discharge) अवधियां (ऊर्जा सीमाएं) पावर आऊट पुट (अधिकतम चार्ज/डिस्चार्ज) तथा दक्षता के स्तर धारित कर सकती हैं।

❖ **परिचालन (चक्रण) आरक्षण सीमाबद्धताएं (Operating Spinning Reserve Constraints)**  
परिचालन आरक्षण सीमाबद्धताएं यह सुनिश्चित करती हैं कि प्रणाली में पर्याप्त मात्रा में संसाधन उपलब्ध है तथा ऑन-लाइन पर रखे गये हैं या फिर प्रति घंटा आपात उपयोगी (standby) अवस्था में हैं जिसके अनुसार भार पूर्वानुमान त्रुटियों नवीकरणीय संसाधनों के आवर्तन (intermittency) का लेखांकन या वास्तविक समय में आपात स्थितियों का मुकाबला किया जा रहा है। परिचालन आरक्षण आवश्यकता (operating reserve requirement) हेतु सामान्य नियम को राज्य भार प्रेषण केन्द्र के साथ चर्चा कर परिभाषित किया जाएगा तथा इसे मॉडल हेतु निवेश मानदण्ड के रूप में माना जाएगा।

❖ **मांग अनुक्रिया (Demand Response)**

संसाधन पर्याप्तता योजना (RAP) के दायित्व का निर्वहन करते समय मांग परक प्रबन्धन हेतु संभावना जैसे कि भार के स्थानान्तरण या मांग अनुक्रिया पर विचार किया जा सकता है। इसके लिए सीमाबद्धताएं, जैसे कि अवधियां जब भार का स्थानान्तरण

घटित हो सकता है तथा भार की उच्चतम मात्रा जिसे किसी निर्धारित अवधि के दौरान स्थानान्तरित किया जा सकता है, को सम्मिलित किया जाएगा।



Power Supply Projections		Projections					Format-3
No.	Particulars	Yr (n+1)	Yr (n+2)	Yr (n+3)	Yr (n+4)	Yr (n+10)	
1	Ex-Bus Requirement of State (MU)						
	For DISCOMs (MU)						
	For SEZ (MU)						
	For OA & Railways (MU)						
2	Energy Availability (MU)						
	MP Genco Thermal Plants						
	MP Genco Hydel Plants						
	ISP, OSP, SSP & Other Hydel						
	Central Sector Stations						
	DVC Plants						
	UMPP & IPPs						
	Wind Generators Availability						
	Solar Generators Availability						
	Other Generators Availability						
3	Availability through banking/Power Market						
	Others Sources (If any)						
	TOTAL (MU)						
	Surplus(+)/Deficit(-) (MU)						
4	Surplus(+)/Deficit(-) (%)						
Note:		1. The yearly Energy requirement/Supply should tally with monthly requirement/supply forecast as indicated in Format-2					
		2. The Power Supply Position would be supported by Graphs showing yearly and Monthly Pattern					



Available/Existing Generation Capacities and Year wise Energy Availability							Format-5
No.	Name of Plant	COD	Capacity (MW)	State Share (MW)	Energy Availability (MU)		
					Yr (n+1)	Yr (n+2)	Yr (n+3) ...Yr (n+10)
1	MP Genco Thermal Plants						
2	MP Genco Hydel Plants						
3	ISP, OSP, SSP & Other Hydel						
4	Central Sector Stations						
5	DVC Plants						
6	Wind Generators Availability						
7	Solar Generators Availability						
8	Other Generators Availability						
9	Availability through banking/Power Market						
10	Others Sources (If any)						
Total							
Note:	1. This format is to be submitted Separately for Long-Term/Medium-Term/Short-Term 2. The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.						



Month-Wise Energy Availability from Available/Existing Generation Capacities													Format-7
No.	Name of Project	Monthly Energy Availability (MU)											
		April	May	June	July	August	September	October	November	December	January	February	March
1	MP Genco Thermal Plants												
2	MP Genco Hydel Plants												
3	ISP, OSP, SSP & Other Hydel												
4	Central Sector Stations												
5	DVC Plants												
6	Wind Genrators Availability												
7	Solar Generators Availability												
8	Other Generators Availability												
9	Availability thorough banking/Power Market												
10	Others Sources (If any)												
Total													
1. This format is to be submitted Separately for Long-Term/Medium-Term/Short-Term													
2. This format is to be furnished year-wise for entire 10-years separately													
3. The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.													
Note:													

Month-Wise Energy Availability from Planned/Upcoming Generation Capacities												Format-8	
No.	Name of Project	Monthly Energy Availability (MU)											
		April	May	June	July	August	September	October	November	December	January	February	March
1	MP Genco Thermal Plants												
2	MP Genco Hydel Plants												
3	ISP, OSP, SSP & Other Hydel												
4	Central Sector Stations												
5	DVC Plants												
6	Wind Generators Availability												
7	Solar Generators Availability												
8	Other Generators Availability												
9	Availability through banking/Power Market												
10	Others Sources (If any)												
Total													
1. This format is to be submitted Separately for Long-Term/Medium-Term/Short-Term 2. This format is to be furnished year-wise for entire 10-years separately 3. The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.													
Note:													

Summary of Month wise Energy Requirement and Energy Availability (MU)													Format-9
No.	Particulars	Monthly Energy Availability (MU)											
		April	May	June	July	August	September	October	November	December	January	February	March
1	Yr (n+1)												
	Energy Requirement												
	Energy Availability												
	Surplus(+)/Deficit(-) (MU)												
2	Surplus(+)/Deficit(-) (%)												
	Yr (n+2)												
	Energy Requirement												
	Energy Availability												
3	Surplus(+)/Deficit(-) (MU)												
	Surplus(+)/Deficit(-) (%)												
	Yr (n+3)												
	Energy Requirement												
..... 10	Energy Availability												
	Surplus(+)/Deficit(-) (MU)												
	Surplus(+)/Deficit(-) (%)												
	Yr (n+10)												
..... 10	Energy Requirement												
	Energy Availability												
	Surplus(+)/Deficit(-) (MU)												
	Surplus(+)/Deficit(-) (%)												
Note:	1. This format figures should tally with Format-2, Format-7 and Format-8												
	2. This format is to be furnished year-wise for entire 10-years separately												
	3. The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.												





Plan for Renewable Power Obligation (RPO)										Formula-11
Particulars		Unit	Projection							
			Yr (n+1)	Yr (n+2)	Yr (n+3)	Yr (n+4)	... Yr (n+10)			
Ex-Bus Energy Requirement (MU) (DISCOMs + SEZ)										
Wind RPO (by WPPs commissioned after 31st March 2022)	RPO	%								
	RPO									
	Availability from Qualified Tied up (including consented) projects	MU								
	Availability from Wind Component of RE RTC projects									
	Year wise Balance RPO quantum to be met									
	Additional Capacity required up to fulfill RPO	MW								
HPO (by Hydro projects commissioned after 8th March 2019)	RPO	%								
	RPO									
	Availability from Qualified Tied up (including consented) projects	MU								
	Year wise Balance RPO quantum to be met									
	Additional Capacity required up to fulfill RPO	MW								
Other RPO (Solar, WPPs commissioned before 31.03.2022, Hydro commissioned before 8th March 2019)	RPO	%								
	RPO									
	Old WPP's Contribution									
	Old Hydro Project's Contribution									
	Availability from Tied up Solar projects (including consented)	MU								
	Availability from Solar Component of RE RTC projects									
	Total Contribution from Tied up Projects									
	Remaining RPO Quantum									
	Additional Capacity required up to fulfill RPO	MW								
Total RPO	RPO	%								
	RPO	MU								
	RPO	MW								
ESO	Energy Storage Obligation	%								
	Energy to be procured through Storage	MU								
	Energy to be procured through Storage	MW								

Deviation in Demand Forecast (Summary Statement for State and All DISCOMs separately) - Discom wise (Name of Discom: _____)					
Sr. No.	Particulars	Previous Years approved As per Plan (1)	Actual (2)	Deviation (2-1)	Reasons for deviation
1	Total Energy Sale (MU)- (Cumulative of all consumer categories)				
2	Distribution losses - in %				
3	Distribution losses - in MU				
4	Supply / Requirement at DISCOM Boundary(MU)				
5	Intra-State Transmission losses - in %				
6	Intra-State Transmission losses - in MU				
7	Supply / Requirement at State Boundary(MU)				
8	Inter-State Transmission losses - in %				
9	Inter-State Transmission losses - in MU				
10	Ex-Bus Requirement of DISCOM (MU)				
11	Sale by MPPMCL to SLZ				
12	Energy Wheeled for Railways/OA Consumers				
13	Ex-Bus Requirement of State (MU)				
14	Peak load of DISCOM (MW)				
15	Peak load of State (MW)				

Format-12

Deviation in Energy Availability					Format-13
Sr. No.	Particulars	Previous Years approved As per Plan (1)	Actual (2)	Deviation (2-1)	Reasons for deviation
1	Ex-Bus Requirement of State (MU)				
	For DISCOMs (MU)				
	For SEZ (MU)				
	For OA & Railways (MU)				
2	Energy Availability (MU)				
	MP Genco Thermal Plants				
	MP Genco Hydel Plants				
	ISP, OSP, SSP & Other Hydel				
	Central Sector Stations				
	DVC Plants				
	UMPP & IPPs				
	Wind Generators Availability				
	Solar Generators Availability				
	Other Generators Availability				
	Availability through banking/Power Market				
	Others Sources (If any)				
5	TOTAL (MU)				

Bhopal, the 5<sup>th</sup> March 2024

No. 616/MPERC/2024 - In exercise of the powers conferred under Section 181 of the Electricity Act, 2003 (36 of 2003), read with Sections 61, 66, and 86 thereof and all other powers enabling it in this behalf, and after previous publication, the Madhya Pradesh Electricity Regulatory Commission hereby makes the following Regulations, namely -

**Madhya Pradesh Electricity Regulatory Commission (Framework for Resource Adequacy) Regulations, 2024**

**Chapter 1**

**Preliminary**

**1. Short Title, Extent, and Commencement**

- 1.1. These Regulations shall be called the “**Madhya Pradesh Electricity Regulatory Commission (Framework for Resource Adequacy) Regulations, 2024 [RG 19 (III) of 2024]**”.
- 1.2. These Regulations shall extend to the whole of Madhya Pradesh.
- 1.3. These Regulations shall come into force from such date as may be notified by the Commission separately.

**2. Objective**

- 2.1. The objective of these Regulations is to enable the implementation of Resource Adequacy framework by outlining a mechanism for planning of generation resources for reliably meeting the projected demand in compliance with specified reliability standards for serving the load with an optimum generation mix.
- 2.2. The Resource Adequacy framework shall cover a mechanism for demand assessment and forecasting, generation resource planning, procurement planning, its monitoring and compliance.

**3. Scope and Applicability**

- 3.1. These Regulations shall apply to the Generating Companies, Distribution Licensees, State Load Despatch Centre, Transmission Companies, other grid

connected entities and stakeholders within the State of Madhya Pradesh.

#### 4. Definitions

4.1. In these Regulations, unless the context otherwise requires,

- a) "Act" means the Electricity Act, 2003 (No. 36 of 2003) and subsequent amendments thereof;
- b) "Authority" or "CEA" means Central Electricity Authority referred to in sub-section (1) of Section 70 of the Act;
- c) "Capacity Credit" or "CC" means a percentage of a resource's nameplate capacity that can be counted towards resource adequacy requirements;
- d) "CERC" means the Central Electricity Regulatory Commission;
- e) "Electric Power Survey" or "EPS" means a periodic electric power survey conducted by the Central Electricity Authority to assess the electricity demand on medium and long-term basis for each DISCOM/State/Union Territory/Region and for the country;
- f) "Expected Energy Not Served" or "EENS" means the expected amount of energy (MUs) that may not be served for each year within the planning period for Resource Adequacy planning;
- g) "Long-Term" means duration exceeding five years for development of demand forecasting and generation resource planning;
- h) "Long-Term Power Procurement" means procurement of power under any arrangement or agreement with a term or duration exceeding five years;
- i) "Long-Term Distribution Resource Adequacy Plan" or "LT-DRAP" means plan for assessment of long-term resource adequacy by the Distribution Licensee;
- j) "Loss of Load Probability" or "LOLP" means probability that a system's load may exceed the generation and firm power contracts available to meet that load in a year;
- k) "Medium-Term" means duration exceeding one year and up to five years for development of demand forecasting and generation resource planning;
- l) "Medium-Term Power Procurement" means procurement of power under

- any arrangement or agreement with a term or duration exceeding one year and up to five years;
- m) **"Medium-Term Distribution Resource Adequacy Plan" or "MT-DRAP"** means plan for assessment of medium-term resource adequacy by the Distribution Licensee;
- n) **"MPERC" or "Commission"** means the Madhya Pradesh Electricity Regulatory Commission;
- o) **"MP Power Management Company Limited or MPPMCL"** means the Holding Company of three (3) State-owned Distribution Companies of Madhya Pradesh constituted by Government of Madhya Pradesh under Madhya Pradesh Electricity Reforms Transfer Schemes Rules 2006, as amended;
- p) **"Month"** means a calendar month as per the Gregorian Calendar;
- q) **"Net Load"** means the load derived upon exclusion of actual renewable energy generation (MW) from gross load prevalent on the grid during any time-block;
- r) **"Normalized Energy Not Served" or "NENS"** is normalization of the EENS by dividing it by the total system energy (MUs);
- s) **"Planning Reserve Margin" or "PRM"** means a percentage of the capacity over and above the State's coincident share in national peak demand as may be laid down by Authority or approved by the Commission from time to time for the purpose of generation resource planning;
- t) **"Power Exchange"** means any Exchange operating as Power Exchange for electricity in terms of the Regulations issued by the Central Electricity Regulatory Commission;
- u) **"Power Purchase Agreement (PPA)"** means the agreement entered into between the Procurer(s) and the Seller pursuant to which the Seller shall supply power to the Procurer(s) as per the terms and conditions specified therein;
- v) **"Power Sale Agreement (PSA)"** shall mean the back-to-back agreement entered into between the Buying Entity(s) and the Intermediary Procurer/trader for onward sale of power purchased under any PPA;

- w) **"Power Supply Agreement"** shall mean the agreement entered into between the Procurer(s) and the Seller pursuant to which the Seller shall supply power to the Procurer(s) as per the Ministry of Power Guidelines for long-term Procurement of Electricity from Thermal Power Stations set up on Design, Build, Finance, Own and Operate (DBFOO) basis and sourcing fuel as provided under Model Bidding Documents including allocation of coal under B(I), B(III) and B(IV) of SHAKTI (Scheme for Harnessing and Allocating Koyala (Coal) Transparently in India) Policy;
- x) **"Resource Adequacy" or "RA"** means a mechanism to ensure adequate generation resources to serve expected demand (including peak, off peak and in all operating conditions) reliably in compliance with specified reliability standards for serving the load with an optimum generation mix and with a focus on integration of environmentally benign technologies after taking into account the need, inter alia, for flexible resources, storage systems for energy shift, and demand response measures for managing the intermittency and variability of renewable energy sources;
- y) **"Short-Term"** means duration up to one year for development of demand forecasting and generation resource planning;
- z) **"Short-Term Power Procurement"** means procurement of power under any arrangement or agreement with a term or duration of up to one year;
- aa) **"Short-Term Distribution Resource Adequacy Plan" or "ST-DRAP"** means plan for assessment of short-term resource adequacy by the Distribution Licensee;
- bb) **"SLDC"** means the State Load Despatch Centre of Madhya Pradesh;
- cc) **"State"** means the State of Madhya Pradesh;
- dd) **"Year"** means financial year commencing on 1<sup>st</sup> April of the year and ending on 31<sup>st</sup> March of the succeeding year.

4.2. All other words and expressions used in these Regulations, although not specifically defined herein above, but defined in the Act or other Regulations of the Commission or CEA Guidelines, shall have the meaning assigned to them in the Act or other Regulations of the Commission or CEA Guidelines. The other words and expressions used herein but not specifically defined in these Regulations or in the Act but defined under any law passed by the Parliament

applicable to the electricity industry in the State shall have the meaning assigned to them in such law.

## **Chapter 2**

### **General**

#### **5. Resource Adequacy Framework**

- 5.1. Resource Adequacy framework shall comprise planning of generation resources for reliably meeting the projected demand in compliance with specified reliability standards for serving the load with an optimum generation mix.
- 5.2. Resource Adequacy framework shall cover following steps:
  - a) Demand assessment and forecasting;
  - b) Generation resource planning;
  - c) Procurement planning;
  - d) Monitoring and compliance.
- 5.3. The Resource Adequacy exercise shall be developed and prepared for a planning period of 10 (ten) years on annual rolling basis.
- 5.4. The MP Power Management Company Limited (MPPMCL) on behalf of the Distribution Licensees shall develop and prepare Long-Term Distribution Resource Adequacy Plan (LT-DRAP), Medium-Term Distribution Resource Adequacy Plan (MT-DRAP), and Short-Term Distribution Resource Adequacy Plan (ST-DRAP) in accordance with these Regulations.

## **Chapter 3**

### **Demand Assessment and Forecasting**

#### **6. Long-Term and Medium-Term Demand Forecast**

- 6.1. The MPPMCL in consultation with Distribution Licensees shall develop and prepare demand assessment and forecasting considering the guidelines for Long-term and Medium-term power demand forecast issued by Central Electricity Authority (CEA) from time to time.
- 6.2. Demand assessment and forecasting shall cover hourly or sub-hourly assessment and forecasting of demand within the distribution area of Distribution Licensee for Long-term and Medium-term using comprehensive input data, policies and scientific modelling tools.



- 6.3. The Distribution Licensee shall be responsible for providing the category-wise consumption data and assessed consumption data of particular class of unmetered consumers such as agricultural, domestic, etc., to MPPMCL for demand forecasting. The Distribution Licensee shall submit the category-wise consumption information of previous financial year and any other information as may be required by MPPMCL by 21<sup>st</sup> April of each year.
- 6.4. The SLDC shall be responsible for providing Deviation Settlement Mechanism (DSM) accounts to MPPMCL of previous financial year latest by 21<sup>st</sup> April of each year.
- 6.5. MPPMCL shall be responsible for the assessment and forecasting of demand (MW) and energy (MUs).
- 6.6. MPPMCL shall prepare the energy forecast for each consumer category as specified by the Commission in its Retail Supply Tariff Order from time to time.
- 6.7. MPPMCL shall determine the energy forecast for a consumer category by adopting any of the following and/or combination of following methodologies:
- a) Trend Analysis, i.e., Year on Year / compounded annual growth rate (CAGR) for past period and time series analysis;
  - b) End Use or Partial End Use method;
  - c) Auto-regressive integrated moving average (ARIMA) method;
  - d) Artificial Intelligence (AI) including machine learning, Artificial Neural Network (ANN) techniques; and
  - e) Econometric Modelling (specifying the parameters used, algorithm, and source of data).
- 6.8. MPPMCL may use Electric Power Survey (EPS) projections as base and/or any methodology other than the above-mentioned methodologies after providing detailed justification for the methodology adopted for demand forecasting. MPPMCL shall use best fit of various methodologies for the purpose of demand forecast after taking into consideration various scenarios such as most probable, business as usual, and aggressive, as specified under Regulation 6.17 of these Regulations.
- 6.9. For the purpose of methodology to be used for energy forecasting of a consumer category, MPPMCL shall conduct statistical analysis and select the method for

which standard deviation is lowest and R-square is highest.

- 6.10. MPPMCL shall utilize state-of-the-art tools, scientific and mathematical methodologies, and comprehensive database such as, but not limited to, weather data, historical data, demographic and econometric data, consumption profiles, impact of policies and drivers, etc. as may be applicable to respective Distribution Licensee's area.
- 6.11. MPPMCL may modify the energy forecast obtained for each consumer category by considering relevant activities. The impact shall be considered by developing trajectories for each but not limited to the activities as follows based on the economic parameters, policies, historical data, and projections for the future:-
  - a) Demand-Side Management;
  - b) Open Access;
  - c) Distributed Energy Resources;
  - d) Deviation Settlement Mechanism and demand response measures;
  - e) Electric Vehicles and E-Vehicle / E-Rickshaws Charging Stations;
  - f) Tariff Signals including Time of the Day (ToD) Tariff;
  - g) Changes in specific energy consumption;
  - h) Increase in commercial activities with electrification;
  - i) For agricultural loads, the season-wise change, temperature, area-wise rainfall pattern, impact of water level in agricultural pockets, irrigation facilities, area-wise type of crop, number of crops, increase in number of agricultural pump sets and its solarization;
  - j) Changes in consumption pattern of seasonal consumers including seasonal variations for Rabi/Kharif season and other crops;
  - k) Impact of important festivals, working days or non-working days, Peak and Off-Peak hours load pattern; and
  - l) Policy influences such as 24x7 supply to all consumers, LED penetration, efficient use of agriculture pumps, fans/ACs/ appliances, increased use of appliances for cooking/heating/cooling applications, electrification policies, distributive energy resources, storage, policies which can impact econometric parameters, impact of national hydrogen mission,

etc. For each policy, a separate trajectory should be developed for each consumer category.

- 6.12. MPPMCL may take into consideration any other factor not mentioned in Regulation 6.11 of these Regulations after providing detailed justification for its consideration.
- 6.13. The long and medium-term load profiles of the consumer categories for which load research has been conducted may be refined on the basis of load research analysis. A detailed explanation for refinement conducted must be provided.
- 6.14. The summation of energy forecast (MUs) for various consumer categories after adjusting energy forecast of captive consumers, prosumers and open access consumers as per Regulations 6.7 to 6.13 of these Regulations, as the case may be, shall be the energy forecast for the Distribution Licensee at consumer level.
- 6.15. MPPMCL shall calculate the energy forecast (MUs) of the State by considering Distribution Losses and Intra/Inter-State Transmission losses as per realistic loss trajectory proposed by Licensees:

Provided that for the purposes of estimating Aggregate Revenue Requirement (ARR) for ensuing years and approving true-up of previous years, Distribution/ Aggregate Technical and Commercial (AT&C) Losses trajectory as specified by the Commission from time to time shall be considered.

- 6.16. The peak demand (in MW) shall be determined by considering the average load factor, load diversity factor, seasonal variation factors for the last three years, and the energy forecasts (in MUs) obtained in accordance with Regulation 6.15 of these Regulations. If any other appropriate load factor is considered for future years, a detailed justification shall be provided by MPPMCL for its consideration.
- 6.17. MPPMCL shall conduct sensitivity and probability analysis to determine the most probable demand forecast. It shall also develop long-term and medium-term demand forecasts for possible scenarios, while ensuring that at least three different scenarios (most probable, business as usual, and aggressive scenarios) are developed.

## **7. Short-Term Demand Forecast and Aggregation of Demand Forecast**

### **A. Short-Term Demand Forecast**

- 7.1. MPPMCL shall develop a methodology for hourly or sub-hourly demand

forecasting and shall maintain a historical database.

- 7.2. For the purpose of ascertaining hourly load profile and for assessment of contribution of various consumer categories to peak demand, load research analysis shall be conducted, and influence of demand response, load shift measures, time of use shall be factored in by MPPMCL with inputs from State Load Despatch Centre (SLDC). A detailed explanation for methodology adopted shall be provided.
- 7.3. MPPMCL shall utilize state-of-the-art tools, scientific and mathematical methodologies, and comprehensive data such as but not limited to weather data, historical data, demographic and econometric data, consumption profiles, policies and drivers, etc. as may be applicable to the area of Distribution Licensee.

#### **B. Aggregation of Demand Forecast**

- 7.4. MPPMCL shall prepare hourly or sub-hourly 1-year Short-term (ST), 5-year Medium-term (MT) and 10-year Long-term (LT) demand forecasts on a rolling basis.
- 7.5. MPPMCL with inputs from SLDC and based on the demand estimates of the Distribution Licensees of the State, shall estimate, in different time periods, namely Long-term, Medium-term and Short-term, the demand for the entire State duly considering the load diversity of the State.
- 7.6. MPPMCL shall aggregate demand forecasts considering the load diversity, congruency, seasonal variation aspects and submit State-level aggregate demand forecasts for Long-term and Medium-term (MW and MUs) to CEA by 31<sup>st</sup> May and Short-term to SLDC by 21<sup>st</sup> May of each year for the ensuing year(s).
- 7.7. SLDC shall submit State-level aggregate demand forecasts for Short-term (MW and MUs) to RLDC and NLDC by 31<sup>st</sup> May of each year for the ensuing year(s).

### **Chapter 4**

#### **Generation Resource Planning**

#### **8. Preparation of Generation Resource Planning**

- 8.1. MPPMCL shall plan and assess the required generation resources considering the existing resources, upcoming resources (not yet commissioned), capacity credit and incremental capacity requirement to meet forecasted demand

including planning reserve margin (PRM).

8.2. Generation Resource Planning shall involve the following steps namely,

- a) Capacity crediting of generation resources;
- b) Assessment of planning reserve margin; and
- c) Ascertaining resource adequacy requirement and allocation to Distribution Licensees.

8.3. The Generation Resource Planning shall include the following data, but not limited to:-

- a) Planning Reserve Margin;
- b) Actual demand met by the State/Distribution Licensee in hourly time block resolutions for last 5 years;
- c) Estimated load growth during the planning period;
- d) Critical characteristics, machine characteristics, hydrology for hydro machines and technical parameters of thermal and hydro generation plants, such as:
  - i. Name of plant, location (State/Region);
  - ii. Capacity (MW) (for existing and planned capacities);
  - iii. Heat Rate for thermal generating stations;
  - iv. Auxiliary Consumption (MW);
  - v. Maximum and Minimum Generation Limits (MW);
  - vi. Ramp Up and Ramp Down Rate (MW/min);
  - vii. Start-up time;
  - viii. Plant Availability Factor (% of time), etc.; and
  - ix. Capacity utilization factor (CUF) for renewable resource-based power plants.
- e) All the characteristics and parameters with their values for each generating plant considered shall be provided in the resource plan;
- f) Under-construction capacity/retirement of generation capacity/contracted capacity/bilateral contracts;
- g) Potential technologies, gestation periods and lifetime of different assets;
- h) Capacities and generation profile of renewable generation;
- i) Historical forced outage rates and planned maintenance rates of generation capacities;

- j) Renewable Purchase Obligation (RPO) including Energy Storage Obligation targets, etc.;
- k) Constraints such as penalties for unmet demand, forced outages, and system emission limits as defined in State Grid Code and Indian Electricity Grid Code and emission norms specified by the Ministry of Environment, Forest and Climate Change (MoEFCC) shall be identified and enlisted.

8.4. MPPMCL shall map all its existing resources, upcoming resources, and retiring resources to develop the existing resource map in MW for the Long-term and Medium-term power procurement plan.

## 9. Capacity Crediting of Generation Resources

9.1. MPPMCL shall compute Capacity Credit (CC) for their contracted generation resources by applying the net load-based approach as outlined under Regulation 9.2 of these Regulations. The average of the Capacity Credit (CC) factor for each type of contracted generation resource for the preceding five years on a rolling basis shall be considered as Capacity Credit factor for the purpose of Generation Resource Planning.

9.2. The Net Load based approach/methodology for determination of Capacity Credit (CC) factors for generation resources shall be adopted as under:

- a) For each year, the hourly recorded Gross Load (in MW) for 8760 hours (8784 hours for leap year) (or sub-hourly time-blocks) shall be arranged in descending order;
- b) For each hour, the Net Load (in MW) shall be calculated by subtracting the actual wind or solar generation (in MW) corresponding to that load for 8760 hours (8784 hours for leap year) (or sub-hourly time-blocks) and then arranged in descending order;
- c) The difference between these two load duration curves mentioned under Regulation 9.2 (a) and (b) of these Regulations represents the contribution of capacity factor of wind generation or solar generation, as the case may be;
- d) Installed capacity (in MW) of wind or solar generation capacity shall be summed up corresponding to the top 250 load hours (or sub-hourly time-blocks) as computed in Regulation 9.2(c) of these Regulations. The

selection for 250 top load hours (or sub-hourly time-blocks) shall be considered from the arranged descending order of Net Load hours ;

- e) Total generation from wind or solar generation (in MUs) corresponding to these top 250 load hours shall be summed up;
- f) Resultant CC factor shall be (Total Generation for 250 top load hours)/(Installed RE Capacity for 250 top load hours), as per formula below:

$$\text{CC factor} = \frac{\text{Sum of RE Generation for 250 top load hours (MUs)}}{\{\text{Sum of RE Capacity (MW) for 250 top load hours}/1000\} \text{ (MUs)}}$$

- g) The process for CC factor determination shall be undertaken for each year for duration of past five-years and the resultant CC shall be the average of CC values of past 5 years:

Provided that at the time of determining CC factor considering past five-years duration values, MPPMCL shall exclude abnormal values during the year for following events or circumstances, but not limited to:-

- a) Act of God including but not limited to lightning, drought, fire and explosion, earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, geological surprises, natural disaster or exceptionally adverse weather conditions, which are in excess of the statistical measures for the last hundred years; or
- b) Any disaster declared by the Central Government under Disaster Management Act as amended from time to time; or
- c) Any act of war, invasion, armed conflict or act of a foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action.

9.3. For the purpose of RE generation resource contracted by MPPMCL on behalf of Distribution Licensees, CC factors as prescribed by Authority and as may be approved by the Commission shall be considered.

9.4. CC factors for hydro generation resources shall be computed based on water availability with different CC factors for run-of-the-river hydro power projects and dam-based/storage-based hydro power projects.

- 9.5. CC factor for thermal resources shall be computed based on coal availability and planned/forced outages.
- 9.6. MPPMCL shall calculate State-specific CC factors based on aggregate State Demand, State Net Load and contracted RE generation available in the State and inform such CC factors to SLDC by 21<sup>st</sup> May of each year for the ensuing year(s).
- 9.7. SLDC shall submit information on CC factors so received from MPPMCL to CEA, RLDC and NLDC by 31<sup>st</sup> May of each year for the ensuing year(s).

#### **10. Assessment of Planning Reserve Margin (PRM)**

- 10.1. Planning Reserve Margin (PRM) is a percentage of the capacity over and above the State Coincident share in National Peak Demand required to be considered for the purpose of generation resource planning.
- 10.2. Such Planning Reserve Margin (PRM) shall be based on the reliability indices in terms of Loss of Load Probability (LOLP) and Normalized Energy Not Served (NENS) as may be prescribed by the Authority.
- 10.3. The PRM determined under Regulation 10.1 and 10.2 of these Regulations shall be considered by MPPMCL in their planning for resource adequacy requirement and generation resource capacity planning.
- 10.4. MPPMCL may consider higher planning reserve margins, subject to prior approval from the Commission.
- 10.5. The State level resource adequacy planning by MPPMCL shall factor in PRM while developing State-level Integrated Resource Plan.

#### **11. Resource Adequacy Requirement and its Allocation**

- 11.1. MPPMCL shall determine capacity requirement to meet demand and PRM considering available capacity adjusted for capacity crediting for existing and planned contracted generation resources.
- 11.2. The available capacity as determined in Regulation 11.1 shall be then plotted over a time axis of 15-minute intervals or longer, but not more than one hour. This shall form the resource map of the Distribution Licensees.
- 11.3. MPPMCL shall subtract the resource map developed in Regulation 11.2 from the demand forecast developed in Regulation 6 of these Regulations to identify the resource gap.



- 11.4. MPPMCL shall conduct sensitivity and probability analysis to determine the most probable resource gap. It shall also develop Long-term, Medium-term, and Short-term resource gap plans for possible demand forecasting scenarios, while ensuring at least three different scenarios (most probable, business as usual, and Pessimistic Scenario) as specified by the CEA in Guidelines for Medium and Long-Term Power Demand Forecast issued from time to time.
- 11.5. Based on most probable scenario, MPPMCL shall undertake development of Long-term, Medium-term, and Short-term Distribution Resource Adequacy Plan of each year to meet Resource Adequacy requirement.
- 11.6. Long-term National Resource Adequacy Plan (LT-NRAP) as may be published by Central Electricity Authority to determine the optimal Planning Reserve Margin (PRM) requirement at the national level for ensuring reliable supply targets and Short-term National Resource Adequacy Plan (ST-NRAP) as may be published by NLDC for a one-year look-ahead shall act as guidance for MPPMCL for undertaking the Resource Adequacy exercises.
- 11.7. Based on the allocated share in national peak provided in LT-NRAP for the State, MPPMCL shall allocate each Distribution Licensee's share in the national peak within 15 days of the publication of LT-NRAP.
- 11.8. MPPMCL, based on the share in national peak provided in LT-NRAP, shall plan to contract the capacities over and above the State coincident demand in national peak prescribed by LT-NRAP or procure higher to meet their Resource Adequacy Requirement (RAR) at the time of national peak.
- 11.9. MPPMCL shall keep the share of Long-term contracts in the range of 75-80% of the RAR and Medium-term contracts in the range of 10% - 20% of the RAR, while the balance of RAR shall be met through Short-term contracts:
- Provided that power procurement through Day-Ahead Market (DAM), shall not be considered towards the contribution for meeting RAR.
- 11.10. The contract mix mentioned under Regulation 11.9 of these Regulations may be periodically reviewed by the Commission.
- 11.11. MPPMCL shall prepare a 10-year Long-term Distribution Resource Adequacy Plan (LT-DRAP) to meet the peak demand and energy requirement for the State of Madhya Pradesh.

- 11.12. MPPMCL while formulating the LT-DRAP shall also consider the constraints mentioned in Annexure-I of these Regulations.
- 11.13. MPPMCL may take inputs from the LT-NRAP like PRM, capacity credits, etc., while formulating the LT-DRAP and shall submit their plans to CEA by 30<sup>th</sup> September of each year for the ensuing year(s) for validation.
- 11.14. MPPMCL on behalf of Distribution Licensees shall submit the LT-DRAP duly vetted by CEA along with necessary supporting documents, formats (enclosed as Annexure-II to these Regulations) and details for meeting RAR, to the Commission within 15 days from the date of receipt of CEA approval.
- 11.15. MPPMCL shall also demonstrate to the Commission 100% tie-up for the first year and a minimum 90% tie-up for the second year to meet the requirement of their contribution towards meeting national peak. Only resources with long / medium / short-term contracts shall be considered to contribute to the RAR.
- 11.16. For subsequent three years, MPPMCL shall also furnish a plan to meet estimated requirement of their contribution to meet national peak for the Commission's approval.
- 11.17. The LT-DRAP shall be carried out by MPPMCL on an annual rolling basis considering the contracted capacity as a part of the system, which shall be optimized for additional capacity required.
- 11.18. MPPMCL through LT-DRAP, shall demonstrate to the Commission their plan to meet their Peak demand and energy requirement with a mix of Long-term, Medium-term, and Short-term contracts, including Power Exchanges:
- Provided that MPPMCL shall keep the share of contracts in the range as mentioned under Regulation 11.9 of these Regulations.
- 11.19. The share of long-term contracts in the entire mix of the contracts of the Distribution Licensees shall be at least equal to the maximum of the quantum of long-term contracts determined for meeting RAR of national peak and quantum obtained from LT-DRAP for fulfilling own energy and peak requirement.
- 11.20. SLDC shall prepare one-year look ahead ST-DRAP (Short-term Distribution Resource Adequacy Plan) on an annual basis for operational planning, at the State level based on the LT-DRAP study results. The SLDC shall review the ST-DRAP on a daily, monthly and quarterly basis based on actual availability of generation resources.

## Chapter 5

### Procurement Planning

#### 12. Procurement planning shall consist of:

- (a) Optimal power procurement resource mix;
- (b) Modalities of procurement type and tenure; and
- (c) Sharing of Capacity.

#### 13. Procurement Resource Mix

- 13.1. In power procurement strategy, MPPMCL shall ensure an optimal procurement generation resource mix and also facilitate smooth integration of Renewable Energy (RE) sources in its portfolio of power procurement resource options, while meeting reliability standards and Renewable Purchase Obligation targets. Further, the future capacity mix may comprise existing capacities, planned capacities and capacity addition required to meet the increasing demand of the Distribution Licensees considering appropriate gestation period of the generation resource.
- 13.2. For identification of the optimal generation procurement resource mix, optimization techniques and least-cost modelling shall be employed by MPPMCL in order to avoid stranded capacity. MPPMCL shall demonstrate the same in LT-DRAP to be submitted to Commission for approval.
- 13.3. MPPMCL shall contract the optimal portfolio of resources to meet Distribution Licensees' future demand and Resource Adequacy Requirement (RAR) obligations, based on the output derived from the LT-NRAP study results.
- 13.4. MPPMCL shall consider Long / Medium / Short-term contracts of generation resources towards the contribution for meeting RAR:
- Provided that power procurement through Day-Ahead Market (DAM), shall not be considered towards the contribution for meeting RAR.
- 13.5. MPPMCL shall contract additional resources based on the LT-DRAP to meet its own peak demand.
- 13.6. The power capacity procurement from Renewable Energy sources for fulfilling the RPO targets shall be carried out as per Madhya Pradesh Electricity

Regulatory Commission (Cogeneration and Generation of Electricity from Renewable Sources of Energy), (Revision-II), Regulations, 2021 and amendments thereof.

- 13.7. The power procurement from Wind, Solar PV, Wind Solar Hybrid, and Round the Clock (RTC) generation sources shall be carried out as per the guidelines for tariff based competitive bidding process notified by the Ministry of Power.
- 13.8. MPPMCL shall contract storage capacity corresponding to the results of LT-DRAP capacity addition requirement for future years from Battery Energy Storage System (BESS) or Pumped Storage Projects (PSP) or any other storage technology as per the guidelines for tariff based competitive bidding process notified by the Ministry of Power.
- 13.9. MPPMCL may contract power through State Generating Stations/ Central Generating Stations/ Independent Power Producers (IPPs)/ Captive Power Plants (CPPs)/ Renewable Power Plants including Co-Generation Plants/ Central Agencies /State Agencies/ Intermediaries / Traders / Aggregators / Power Exchanges or through Bilateral Agreements / Banking Arrangements with other Distribution Licensees and any other sources as may be approved by the Commission.
- 13.10. MPPMCL may procure power on Short-term and Medium-term basis through DEEP and PUSHp portal and OTC Platform.

#### **14. Procurement Type and Tenure**

- 14.1. MPPMCL, while determining the modalities and tenure of procurement of resources, shall ensure that procurement contracts shall be decided first within the region, subject to the least cost resource availability considering transmission constraints and cost of transmission for procurement from outside the region and then across regions if necessary.
- 14.2. MPPMCL shall identify the generation resource mix and also procurement strategy in Long-term, Medium-term and Short-term period and seek approval of the Commission.
- 14.3. MPPMCL in its overall power procurement planning approach shall employ greater emphasis on adequate contracting through Long-Term and Medium-Term arrangements. However, MPPMCL shall ensure that entering into new

Long-Term and Medium-Term contracts does not contribute towards accumulation of stranded capacity and additional burden to the consumers on account of fixed cost associated with stranded capacity.

- 14.4. MPPMCL through annual rolling plan shall ensure incremental capacity addition through Long-term/Medium-term/Short-term duly factoring the existing and planned procurement arrangements of the Distribution Licensees.

### **15. Sharing of Capacity**

- 15.1. MPPMCL shall duly factor in the possibility of Long-term / Medium-term/ Short-term capacity sharing while preparing the Resource Adequacy plan and optimally utilize the platform for Inter-State capacity sharing or trading mechanism created by the Central Commission/Central Government and optimize the capacity costs as far as possible.

### **16. Approval of Power Purchase Agreement**

- 16.1. Any new capacity arrangement/tie-up shall be subject to the prior approval of the Commission in view of necessity, reasonableness of cost of power purchase and promotion of working in an efficient, economical and equitable manner.
- 16.2. All procurement of Long/Medium/Short-term power from various sources shall be carried out as per the Guidelines/ Rules/ Regulations/ Policies issued by the Central Government/ Appropriate Commission from time to time.
- 16.3. Any new Power Purchase Agreements (PPA's) for Long/Medium-term power procurement or amendments to existing Long/Medium-term Power Purchase Agreement (PPA's)/ Power Sale Agreement (PSA)/ Power Supply Agreement entered into by MPPMCL shall be subject to the prior approval of the Commission.
- 16.4. MPPMCL shall submit the list of all existing Power Purchase Agreements executed with different conventional power plants as well as RE Generators along with the Resource Adequacy plan.

### **17. Variation in Power Purchase**

- 17.1. MPPMCL shall undertake additional power procurement during the year, over and above the approved resource adequacy procurement plan on account of

(a) In case, where there has been an unanticipated increase in the demand for electricity or a shortfall or failure in the supply of electricity from any approved source of supply during the year or when the sourcing of power from existing tied-up sources becomes costlier than other available alternative sources, MPPMCL may enter into additional agreement for procurement of power.

(b) MPPMCL may enter into a Short-term arrangement or agreement for procurement of power when faced with emergency conditions that threaten the stability of the grid, or when directed to do so by the SLDC/RLDC to prevent grid failure or during exigency conditions and for banking with other States on Short-term basis without prior approval of the Commission:

Provided that the details of such procurement mentioned in Regulation 17.1 (a) and (b) shall be submitted to the Commission within 45 days from date of procurement of power with proper justification.

## Chapter 6

### Monitoring and Compliance

#### 18. Monitoring and Compliance

18.1. MPPMCL/Distribution Licensees shall comply with the Resource Adequacy requirement in accordance with the timelines specified under Regulation 20 of these Regulations. In case of non-compliance, appropriate non-compliance charges as may be determined by the Commission, shall be applicable.

## Chapter 7

### Roles and Responsibilities and Timelines

#### 19. Data Requirement and Sharing Protocol

19.1. Distribution Licensees shall maintain and share all data related to demand assessment and forecasting with MPPMCL and SLDC, such as:-

- a) Consumer data;
- b) Historical demand data;
- c) Weather data;
- d) Demographic and econometric variables;
- e) Distribution Losses and intra/inter-State Transmission losses;
- f) Actual energy requirement;

- g) Availability including curtailment, peak electricity demand, and peak met along with changes in demand profile (e.g.: agricultural shift, time of use, etc.); and
  - h) Historical hourly load pattern, etc.
- 19.2. Distribution Licensees shall maintain and share all statistics and database pertaining to policies and drivers with MPPMCL, such as:-
- a) LED penetration, efficient fan/ ACs penetration, appliance penetration, increased usage of electrical appliances for cooking, heating, cooling, etc., in households;
  - b) Increase in commercial activities for geographic areas/ regions;
  - c) Increase in number of agricultural pumps;
  - d) Solarization within distribution licensees' area;
  - e) Changes in specific energy consumption;
  - f) Consumption pattern from seasonal consumers;
  - g) Demand Side Management (DSM);
  - h) Distributed Energy Resources (DERs);
  - i) Electric Vehicles (EVs);
  - j) Open Access (OA);
  - k) National Hydrogen Mission;
  - l) Reduction of AT&C losses, etc;

Provided that statistics and database pertaining to households such as LED penetration, efficient fan penetration, appliance penetration, increased usage of electrical appliances for cooking, etc., shall be utilized by MPPMCL whenever statistical information and database become available through Distribution Licensees.

- 19.3. Distribution Licensees shall maintain at least past 10 years of statistics in their database pertaining to consumption profiles for each class of consumers, such as domestic, commercial, public lighting, public water works, agricultural/irrigation, LT industries, HT industries, railway traction, bulk (non-industrial HT consumers), open access, captive power plants, insights from load survey, contribution of consumer category to peak demand, seasonal variation aspects, etc., and share the same with MPPMCL.
- 19.4. MPPMCL/SLDC shall maintain the Distribution Licensee-specific as well as

aggregate for State as a whole, statistics and database pertaining to aggregate demand assessment and forecasting data mentioned above and share State-level assessment with the Authority/NLDC and RLDC for regional/national assessment from time to time.

- 19.5. MPPMCL shall share information and data pertaining to the existing and contracted capacities with their technical and financial characteristics including hourly generation profiles to SLDC for computation of State-level capacity credit factors and for preparation of State-level assessment.
- 19.6. SLDC and MPPMCL shall aggregate generation data and share State-level projections with the Authority and NLDC as the case may be for assessment of Resource Adequacy requirement.

## 20. Timelines

- 20.1. The Distribution Licensees shall submit the category-wise consumption information of previous financial years and any other information as may be required by MPPMCL by 21<sup>st</sup> April of each year for the ensuing year(s).
- 20.2. The MPPMCL / SLDC, on behalf of the Distribution Licensees in the State, shall submit demand forecasts (peak and energy requirement) for the next 10 years, assessment of existing generation resources, CC factor information and such other details as may be required for the LT-NRAP to CEA and ST-NRAP to NLDC by 31<sup>st</sup> May of every year for ensuing year(s).
- 20.3. As per the timelines provided in Annexure-F of Guidelines for Resource Adequacy Planning Framework for India notified by Ministry of Power dated June 28<sup>th</sup>, 2023, LT-NRAP report is to be published by CEA by 15<sup>th</sup> July of each year for the ensuing year(s) and ST-NRAP report is to be published by NLDC by 31<sup>st</sup> July of each year for the ensuing year(s).
- 20.4. MPPMCL shall allocate each Distribution Licensee's share in the national peak within 15 days of the publication of LT-NRAP report by 15<sup>th</sup> August of each year for the ensuing year(s).
- 20.5. MPPMCL shall submit the LT-DRAP plans to CEA by 30<sup>th</sup> September of each year for the ensuing year(s) for validation.
- 20.6. MPPMCL on behalf of Distribution Licensees shall submit the LT-DRAP plan duly vetted by CEA along with details for meeting the RAR to the Commission



within 15 days from the date of receipt of CEA approval.

- 20.7. The Commission shall approve the Resource Adequacy Plan submitted by MPPMCL on behalf of Distribution Licensees within 30 days from the date of submission.
- 20.8. MPPMCL shall submit the details of the contracted capacities for the ensuing year for meeting RAR to SLDC within 30 days from the date of approval by the Commission.
- 20.9. SLDCs shall aggregate the total contracted capacities at the State level and submit the information to the RLDC under intimation to the Commission, within 15 days from the date of receipt from MPPMCL.
- 20.10. As per the timelines provided in Annexure-F of Guidelines for Resource Adequacy Planning Framework for India notified by Ministry of Power dated June 28th, 2023, RLDC has to aggregate the capacities at the regional level and submit the information to the NLDC by the month of February.
- 20.11. The contracting for balance capacity shortfall as communicated by NLDC shall be completed by the end of March of each year for the ensuing year(s) by MPPMCL.

Provided that in case the MPPMCL contracts the balance capacity shortfall through Long/Medium-term power procurement the same shall be subjected to prior approval of the Commission as per Regulation 16.3 of these Regulations.

- 20.12. MPPMCL after contracting the balance capacity shall submit the information to the Commission by 1<sup>st</sup> April of each year for the current year(s).

Provided that in case there is delay in communication by NLDC for balance capacity shortfall, MPPMCL may seek approval from the Commission for time extension for contracting the balance capacity by 25<sup>th</sup> March of each year.

## Chapter 8

### Miscellaneous

#### 21. Placing of information on websites

- 21.1. The monthly/weekly/day-ahead/intra-day power procurements/sale by MPPMCL and generator schedule shall be made available on the websites of MPPMCL on behalf of Distribution Licensees and SLDC within 45 days of such procurements/sale with ease of access to the current as well as archived data.
- 21.2. SLDC shall also publish the monthly Merit Order Dispatch (MoD) stack along with per unit variable cost of each generating station on its website.

#### 22. Constitution of dedicated cells

- 22.1. MPPMCL/Distribution Licensees shall establish a planning cell for Resource Adequacy within three months of these Regulations coming into force. The cell shall have the requisite capability and tools for demand forecast, capacity, RE integration, etc.
- 22.2. Another round the clock dedicated cell shall also be constituted by MPPMCL for power purchase/sale of power on real-time basis and to also undertake intra-day, day-ahead, week-ahead power procurement through Power Exchanges or any other means. MPPMCL shall frame suitable guidelines for the modus operandi of the dedicated cells in line with the spirit of these Regulations and shall apprise the Commission of the same within 45 days from the date of coming into force of these Regulations.

#### 23. Assessment to involve consultation

The MPPMCL shall make the Resource Adequacy Plan in consultation with State Sector Generating Companies, Distribution Licensees, Central Sector Generating Companies, Transmission Companies, National / Regional /State Load Despatch Centre, and Central Electricity Authority. It shall also make enquiries with the Trading Companies and States with surplus power to estimate the likely availability and price of power across the country for peak, off-peak and normal periods:

Provided that MPPMCL may also consult with research agencies with relevant experience.

**24. Power to Issue Orders and Give Practice Directions**

Subject to the provisions of the Electricity Act, 2003 and these Regulations, the Commission may from time to time issue such orders and practice directions as considered appropriate for the implementation of these Regulations and procedure to be followed.

**25. Power to Relax**

The Commission may by general or special order, for reasons to be recorded in writing, may relax any of the provisions of these Regulations on its own motion or on an application made before it by an interested person.

**26. Power to Remove Difficulties**

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Commission may, by an order, make such provisions, not inconsistent with the provisions of the Act and these Regulations, as may appear to be necessary for removing the difficulty/difficulties.

**27. Power to amend**

The Commission may from time to time add, vary, alter, modify or amend any provisions of these Regulations after following the necessary procedures.

**28. Repeal and Savings**

- 28.1. Nothing in these Regulations shall be deemed to limit or otherwise affect the inherent power of the Commission to make such orders as may be necessary to meet the ends of justice or to prevent abuses of the process of the Commission.
- 28.2. Nothing in these Regulations shall bar the Commission from adopting in conformity with the provisions of the Act a procedure, which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of a matter or class of matters and for reasons to be recorded in writing, deems it necessary or expedient for dealing with such a matter or class of matters.
- 28.3. Nothing in these Regulations shall, expressly or impliedly, bar the Commission dealing with any matter or exercising any power under the Act for which no Regulations have been framed, and the Commission may deal with such matters, powers and functions in a manner it thinks fit.
- 28.4. The MPERC (Power Purchase and Procurement Process) Regulations, 2023 {RG-19 (II) of 2023} published vide Notification No. No.378/MPERC/2023 dated 17<sup>th</sup> February, 2023 in the Government of MP Gazette on 24<sup>th</sup> February, 2023 and read with all amendments thereto, as applicable to the subject matter of these Regulations shall stand repealed with effect from the date as specified in Regulation 1.3 of these Regulations.

## ANNEXURE -I

**Methodology of Preparation of Resource Adequacy Plan with constraints**

- (a) The hourly demand profile for the Distribution Licensees shall be projected over the planning period by MPPMCL, based on the forecasted values of annual energy requirement and peak demand trajectory. The annual energy requirement and peak demand shall be forecasted using the methods specified in Regulation 6.7 of these Regulations. The projected hourly demand for the future years shall be used as inputs into the model. MPPMCL shall ensure that the generation expansion planning model chosen is capable of simulating on an hourly chronological resolution<sup>1</sup>. This is necessary to capture the behaviour of the system with respect to ramping of conventional generation, profiles of RE generation, behaviour of energy storage, etc.
- (b) After establishment of demand profile for all future years, the model would undertake an optimization exercise to minimize the total system cost to meet the future demand adhering to all power system parameters. Following constraints should be considered while modelling by MPPMCL:

- ❖ **Planning Reserve Margin / Resource Adequacy Requirement:** The Resource Adequacy Requirement (RAR) constraint shall ensure that the total Resource Adequacy (Generation capacity) of the Distribution Licensees fulfils the Planning Reserve Margin as determined by CEA. The resource adequacy requirement for each Distribution Licensee shall be computed as:

$$RAR = \text{Contribution}^2 \text{ to forecasted national peak demand in GW} \times (1 + PRM)$$

From the supply side, the RAR shall be the sum of the “firm capacity” or “capacity credits” of contracted / planned capacities (including renewables, storage, other resources such as demand response) along with derated interconnection limits (imports)<sup>3</sup>.

<sup>1</sup> It is preferred to simulate all 8760 hours (8784 hours for leap year) on a chronological resolution in a year. However, if computational challenges are faced, MPPMCL can select the representative periods, which may be different. The representative periods chosen are reflective of various projected demand and supply profiles for the base year and future years. Initially, hourly simulation is planned based on hourly data availability, however, the time granularity may be increased to sub-hourly provided there is availability of sub-hourly demand and RE generation data.

<sup>2</sup> This shall be calculated as Distribution Licensee's demand at the time of national peak demand.

<sup>3</sup> The firm capacity shall be calculated as provided in Annexure-III of these regulations.

Both, supply side and demand side RAR shall match. The Thermal capacity credit shall be calculated by reducing the auxiliary consumption and the forced outage rate from the installed capacity.

The capacity credits for generating resources and demand response resources to meet the national peak shall be as estimated by CEA. The capacity credits published by CEA for each resource type may differ between existing and new resources and between resources in different regions. For example, a solar based power plant in the Southern Region will have a capacity credit, which could be different compared to a solar plant in the Northern Region. Similarly, an upcoming wind-based power plant could have a different capacity credit compared to an already commissioned wind plant in the same region. MPPMCL shall use these capacity credits while planning to meet their RAR. For example, a Distribution Licensee having a PPA with an existing solar based power plant located in a southern State would use the capacity credit of existing solar based power plants in the Southern Region.

- ❖ **Portfolio balance constraints:** The portfolio balance shall ensure that the total generation within a control area of Region/State/Distribution licensees and the import of power to the control area of region/State/Distribution licensees is equal to the sum of the demand, exports from the control area of region/State/Distribution Licensees, any energy not served and curtailment, for each hour.
- ❖ **RE Generation constraints:** For renewable energy resources, such as solar and wind, the RE generation shall be constrained as per the hourly profile of the resource. Historic profiles of renewable sources shall be used to generate the hourly profiles. Additional constraints shall ensure that the Distribution Licensee's overall renewable generation targets are met and included while formulating LT-DRAP.
- ❖ **Conventional Generation constraints:**
  - (a) Unlike solar and wind, thermal resources are dispatchable. However, the thermal resources are bound by constraints such as maximum and minimum generation limits, ramp rates, spinning reserve offers, plant availability and unit commitment decisions.
  - (b) The dispatch (energy offer) plus the reserve offer (specified through CERC/MPERC Regulations) for each generator is constrained to be within the

maximum and minimum generation limits. Generation between two consecutive time blocks also must be within the ramping capabilities of the resources. Unit commitment decisions, such as start-up/shut-down, minimum up and down times, etc., require binary variables to implement and are to be included. Additionally, generation units may have periods of outages, which may need to be captured by using an availability factor.

- (c) The capacity for each year needs to be tracked by a constraint, which shall ensure that the capacity in a particular year is equal to the capacity last year plus any new capacity investment minus capacity retirement, if any.

- ❖ **RPO constraints:** Fulfilment of Renewable Purchase Obligation shall be considered as one of the objectives of Resource Adequacy. Technology options like renewable energy generation for round the clock energy supply backed with storage (Battery and PSP), standalone renewable energy capacity along with hydro capacity for balancing renewable energy generation shall be considered while carrying out resource adequacy exercise for Distribution Licensees.
- ❖ **Storage constraints:** Due to the intermittent nature of renewable energy generation, the need for resources, which can store surplus energy and despatch the stored energy during low RE generation periods becomes vital. Storage charge and discharge at any instant are constrained by the storage level or the state of charge (SoC) of the storage resource, and the maximum charge / discharge limit. The resource shall only discharge if there is sufficient energy present due to prior charging of the resource. To implement this, considering the chronological sequence of time is also important. Since, storage resources convert electricity to other forms of energy, there are also some efficiency losses (round-trip efficiency) which shall be accounted for. Different technologies may have different discharge periods (energy limits), power outputs (maximum charge / discharge) and levels of efficiency.
- ❖ **Operating (Spinning) Reserve constraints:** Operating reserve shall ensure that sufficient resources are in the system and kept online or on standby each hour to account for load forecast errors, intermittency of RE or meeting contingencies in real time. The thumb rule for operating reserve requirement shall be defined based on discussions with the SLDC and shall be considered as an input parameter to the model.
- ❖ **Demand Response:** Potential for demand side management such as shifting of load or demand response can be considered while undertaking the Resource Adequacy Plan (RAP). The constraints such as periods when load shifting can occur, and the maximum quantum of load, which can be shifted over a period shall be included.

**ANNEXURE -II**

**Formats (1 to 13) enclosed separately**

**ANNEXURE -III**

**The firm capacity to meet the Resource Adequacy Requirement (RAR) shall be calculated as shown below:**

$$\begin{aligned}
 RAR = & \sum_{i=1}^{num\_solar} Solar\_Capacity * Solar\_Capacity\_Credit \\
 & + \sum_{i=1}^{num\_wind} Wind\_Capacity * Wind\_Capacity\_Credit \\
 & + \sum_{i=1}^{num\_hydro} Hydro\_Capacity * Hydro\_Capacity\_Credit \\
 & + \sum_{i=1}^{num\_thermal} Thermal\_Capacity * Thermal\_Capacity\_Credit \\
 & + \sum_{i=1}^{num\_nuclear} Nuclear\_Capacity * Nuclear\_Capacity\_Credit \\
 & + \sum_{i=1}^{num\_storage} Storage\_Capacity * Storage\_Capacity\_Credit \\
 & + \sum_{i=1}^{num\_other} Other\_Resource\_Capacity * Other\_Resource\_Capacity\_Credit \\
 & + \sum_{i=1}^{num\_Other} Import\_limit * Capacity\_Credit
 \end{aligned}$$





Monthly Ex-Bus Energy Requirement (MU)							Format-2
Month	Actual of Previous Years			Projections			
	Yr (n-3)	Yr (n-2)	Yr (n-1)	Current Year (n)	Yr (n+1)	Yr (n+2)	...Yr (n+10)
State (DISCOMs including SEZ, OACs, Railways)							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
East DISCOM							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
West DISCOM							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
Central DISCOM							
Apr							
May							

Monthly Ex-Bus Energy Requirement (MU)							Format-2
Month	Actual of Previous Years			Projections			
	Yr (n-3)	Yr (n-2)	Yr (n-1)	Current Year (n)	Yr (n+1)	Yr (n+2)	...Yr (n+10)
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
SEZ							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
OACs and Railways							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							

Bhopal, the 6<sup>th</sup> March 2024

No ~~622~~ In pursuance to the Commission order dated 05.03.2024 in Petition No. 2/2024 for replacement of the existing meters (including stopped/defective/burnt meters) with Smart Pre-payment meters, the Commission in exercise of powers entrusted by the Ministry of Power, vide notification Ref. No. 23/35/2019-R&R, dated 23/05/2022 grants relaxation in the timeline from 31<sup>st</sup> December 2023 to 30<sup>th</sup> June 2024 for the areas and consumer categories as shown in Table below on account of reasons assigned therein:

Sr. No.	Areas	Consumers /Consumer category	Reasons for extension as submitted by the petitioners in Petition No 2/2024 and accepted by the Commission
1	2	3	4
1	All Division of AMRUT cities, with AT&C > 15%	<u>Consumer metering for following consumers' categories :-</u>	<ul style="list-style-type: none"> <li>While the Petitioners have been taking all possible efforts to achieve the specified timelines for completion of smart metering, the competitive bidding process is a time taking process which is beyond the control of the Petitioners.</li> <li>Smart Meter is not simply electronic meter rather it is a complete system solution which requires infrastructure like Server, network, trained resources with technical integration of data with various modules like HES, MDM and billing system. Aforesaid prerequisites are to be fulfilled before installation of Smart Meters.</li> <li>Considering the nationwide scope of the RDSS scheme and the subsequent demand for a substantial quantity of Smart Meters across India, there has been a limited availability of Smart Meter manufacturers/plants.</li> </ul>
2	Urban Division with >50% Urban consumers & AT&C >15%	Domestic consumers, Industrial and Commercial consumers and all	
3	Other Divisions with AT&C > 25% in base year	Government offices at Block level and above	

By order of the Commission,  
UMAKANTA PANDA, Commission Secy.